Exhibit A

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           UNITED STATES DISTRICT COURT
              DISTRICT OF NEW JERSEY
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    IN RE: VALSARTAN,
    LOSARTAN, AND IRBESARTAN
 4
    PRODUCTS LIABILITY
    LITIGATION
 5
                                   ) MDL NO. 2875
                                     HON. ROBERT B. KUGLER
 6
    THIS DOCUMENT RELATES TO
    ALL CASES
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         CONFIDENTIAL INFORMATION - SUBJECT TO
10
                       PROTECTIVE ORDER
11
12
     VIDEOTAPED DEPOSITION OF:
13
     MICHAEL BOTTORFF, PHARM.D.
14
     Taken on behalf of the Plaintiffs
15
     March 25, 2022
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Pageid: 723	382
REMOTE APPEARANCES: Por the Plaintiffs: C. BRETT VAUGHN, ESQ. Hollis Law Firm Remote 20 Noverland Park, Kansas 66210 For the Defendants, Teva Pharmaceutical Industries, Ltd., Teva Pharmaceuticals SA, Inc., Actavis LLC, and Actavis Pharma, Inc.: STEPHEN T. FOWLER, ESQ. Greenberg Traurig, LLP 2101 L Street, N.W. Suite 1000 Washington, D.C. 20037 202.331.3100 Fowlerst@gtlaw.com Also Present Remotely: Alice Springer Bailey Hughes Christine Gannon Daniela Tenjidor Geoffrey Coan George Williamson Gerond Lawrence Iris Simpson Ken Dzikowski Marlene J. Goldenberg Melissa Catello Melisha Valenzuela William Murtha Phillip Todd - Videographer	Exhibit 12
I N D E X Page/Line THE WITNESS: MICHAEL BOTTORFF, PHARM.D. EXAMINATION BY MR. VAUGHN EXAMINATION BY MR. FOWLER 241 25 EXAMINATION BY MR. VAUGHN Exhibits Description Page/Line Description Description	Exhibit 30 Document Princeton 00153602 210 13 Exhibit 31 EMA Press Release regarding 217 20 GVK Biosciences Exhibit 32 Document ZHP 00378002 220 17 Exhibit 33 Document Teva-MDL 226 11 Exhibit 34 Document Bottorff 0001 230 23 Exhibit 35 Defendants' Responses and 242 7 Objections to Plaintiffs' Notice of Videotaped Oral Deposition Michael Bottorff, Pharm.D Exhibit 36 Curriculum Vitae 242 16 Exhibit 37 21 CFR 314.3 Definitions 244 14 Exhibit 38 Materials Considered List 260 9 Exhibit 39 Flash Drive of Dr. 260 23 Bottorff's Materials Considered (late-filed) Considered (late-filed)

Page 6 Page 8 1 The videotaped deposition of MICHAEL BOTTORFF, PHARM.D. 2 MICHAEL BOTTORFF, PHARM.D., was taken by ² having been first duly sworn, was examined and 3 counsel for the Plaintiffs, on March 25, testified as follows: 4 2022, commencing at 9:39 a.m. Eastern, THE VIDEOGRAPHER: I'm sorry, I 5 5 via remote proceedings, for all purposes did not hear anything from the witness. 6 6 under the Tennessee Rules of Civil I'm sorry, I did not hear 7 7 Procedure. anything from the witness. 8 8 The formalities as to notice, THE WITNESS: I said "I do." 9 9 caption, certificate, et cetera, are not **EXAMINATION** 10 waived. All objections, except as to 10 BY MR. VAUGHN: 11 11 the form of the questions, are reserved All right, Dr. Bottorff. My name 12 ¹² is Brett Vaughn. You remember I took your to the hearing. 13 It is agreed that Carissa L. deposition about six months ago in the general 14 causation stage of the personal injury cases, Boone, being a Notary Public and Court 15 Reporter, may swear the witness, and correct? 16 16 that the reading and signing of the A. I do remember you, yes. 17 17 completed deposition by the witness are And you've now submitted an Q. 18 not waived. expert report for the class action side of this 19 19 litigation? 2.0 20 A. Correct. 21 21 Q. And did you use your general 22 causation expert report as the base of your class 23 action expert report? 24 There was some overlap in what Α. 25 25 seemed to be some of the issues between the class Page 7 Page 9 1 THE VIDEOGRAPHER: Good morning. ¹ action and the general causation, so there were 2 We are now on the record. My name is some elements that are similar in both. 3 Phillip Todd. I am the videographer for And is this meant to supercede 4 Golkow Litigation Services. your general causation expert report? 5 Today's date is March 25th, 2022, MR. FOWLER: Objection, form. 6 6 and the time is 9:39 a.m. Eastern. THE WITNESS: Not to supercede. 7 7 This remote video deposition is As -- as part of my academic career, 8 8 being held in the matter of Valsartan, whenever there's a -- a literature 9 9 Losartan and Irbesartan Products search and evaluation, a -- a process 10 10 Liability Litigation in the United that you go through, you review and add 11 11 States District Court, District of New information to what you already know. 12 12 Jersey. So it's not meant to replace previous 13 13 The deponent is Dr. Michael information, if that's what the question 14 14 Bottorff. was. 15 15 BY MR. VAUGHN: All parties in this deposition 16 16 are appearing remotely and have agreed Q. And so what content did you add 17 17 to the witness being sworn in remotely. to this expert report? 18 Due to the nature of remote I think the biggest addition is 19 the bioequivalence description assessment and reporting, please pause briefly before 20 speaking to ensure all parties are heard analysis and a section on the process of 21 completely. pharmacokinetic accumulation. And then a -- a 22 Counsel will be noted on the third area was a -- a section where I comment on 23 stenographic record. the -- the need for medical monitoring. 24 The court reporter, Carissa And you said that the purpose of 25 Boone, will now swear in the witness. ²⁵ this was not to replace previous information.

¹ Were there changes actually made, though, to your highlighting in blue. Or now yellow. general causation opinions in here? BY MR. VAUGHN: MR. FOWLER: Objection, form. Do you have your class action 4 THE WITNESS: I don't recall expert report with you? 5 making any changes to my previous report Yes. 6 Can you find anywhere in your in this report. 7 class action expert report where -- where it still MR. VAUGHN: Melisha, can we go 8 ahead and pull up the class action discusses ZHP's internal nitrosamine testing on 9 expert report he submitted? their API? 10 And that will be Exhibit 1. 10 A. Yeah, I don't -- I don't see it. 11 11 (Exhibit 1 was marked.) Are you the one that removed that Q. BY MR. VAUGHN: from your expert report? 13 13 Q. And, Mr. Bottorff, is this A. I probably was, since I wrote your -- the expert report you submitted for the 14 this myself. class action in this litigation? 15 Why did you remove that from your Q. 16 Α. Yes, it is. expert report? 17 17 MR. VAUGHN: And, Melisha, can we MR. FOWLER: Objection to form, 18 18 split-screen that with his general "remove." 19 19 causation report? Go ahead, Doctor. 20 20 And let's mark that as Exhibit 2. THE WITNESS: I can't tell you 21 21 (Exhibit 2 was marked.) right now why I did not include the same 22 ²² BY MR. VAUGHN: wording. The -- the following 23 23 information, which is the -- the FDA Now, turning --24 24 MR. VAUGHN: On the class action values, I believe they are identical. 25 expert report, can we please go to page ²⁵ BY MR. VAUGHN: Page 13 Page 11 1 7, Melisha? And on the general But ZHP's values are higher than causation report, can we go to page 6. the FDA's values, aren't they? ³ BY MR. VAUGHN: MR. FOWLER: Objection. 4 Q. Okay. So on the right-hand side, THE WITNESS: If I went back and ⁵ you see on your general causation report, calculated. (Technical interference) 6 ⁶ you -- line 114, that entire paragraph, you note: probably do that. But I think --⁷ "When ZHP became aware of the nitrosamine BY MR. VAUGHN: 8 ⁸ impurities, ZHP tested certain of its inactive Q. But --9 ⁹ ingredient -- active pharmaceutical ingredient -- they are higher. 10 ¹⁰ batches and determined that the levels of NDMA MR. VAUGHN: All right. Melisha, 11 ¹¹ range from 3.4 parts per million to 120 parts per can we go to page 22 on the class action 12 million"? 12 report now? And let's compare that to 13 13 Do you see that, Dr. Bottorff? page 21 of the general causation report. 14 14 A. Yes. Is that what you All right. And I'm looking at ¹⁵ highlighted in yellow? 15 line 364 where it says: "Presence of 16 16 Q. Correct. trace amounts of NDMA/NDEA on the 17 17 And then it -- looking at your general causation report," Melisha. The 18 class action expert report page 7, line 140, you 18 one on the right. Line 364. Yeah. see that it's now been changed to the FDA testing 19 BY MR. VAUGHN: and any mention of ZHP's testing has been dropped Q. And then -- you see that, Doctor, ²¹ from your export report? ²¹ line 364, where you note the -- the amounts being 22 MR. FOWLER: Objection to form, trace amounts? 23 23 "changed." Yes. A. Okay. And can we compare that, Go ahead, Doctor. Q. 25 25 then, to your class action expert report on page THE WITNESS: I see where you're

Page 16 1 ¹ 22, line 374? It now says: "Presence of NDMA and MR. VAUGHN: Let's go to page 47 ² NDEA," the words "trace amounts" have been dropped 2 of his class action report, and let's 3 ³ from your expert report, correct? compare that to page 27 of his general 4 A. They're not there. causation expert report. ⁵ BY MR. VAUGHN: O. Are you the one that removed 6 those words? Q. And on your general causation ⁷ expert report, I'm looking at the lines 473 and I wrote this, so I must have. 8 8 474. So it ends with: "The carcinogens produced" Why did you remove those words ⁹ from your expert report? 10 A. I have no particular reason. 10 Do you see where I'm looking at, 11 Mr. Bottorff? 11 MR. VAUGHN: All right. Melisha, 12 12 Yes. let's go to page 45 of this class action A. 13 13 expert report. And let's compare that Q. And so now if you look at the 14 class action expert report Line No. 749, you've to page 25 of his general causation 15 now inserted a heading "NDE" -- "NDMA and NDEA and expert report. ¹⁶ BY MR. VAUGHN: valsartan will not reach systemic circulation." 17 17 Q. In the general causation expert Do you see that, Dr. Bottorff? ¹⁸ report on that line 439, the sentence that reads: 18 A. 19 "The concern over the detection of these 19 Q. Why was that added to your expert 20 ²⁰ impurities is that the international agency for report? ²¹ research on cancer, IARC, has categorized 21 MR. FOWLER: Objection to form, 22 ²² nitrosamines as a probable human carcinogen based "added." ²³ on annual studies primarily involving rats." 23 THE WITNESS: I guess I was 24 trying to -- doing what I would call Do you see that in your general 25 sort of format form, outline form, sort ²⁵ causation report, Mr. Bottorff? Page 15 Page 17 A. I do. of identify areas in this second report Okay. Now looking at your class 2 Q. that I would have sections on. So it ³ action expert report line 724, that entire 3 was a -- working from an outline to the ⁴ sentence is no longer in your expert report, is report. ⁵ BY MR. VAUGHN: ⁵ it? 6 Q. And does NDMA or NDEA reaching Α. No. 7 Q. And did you remove that language systemic circulation have anything to do with 8 from your expert report as well? bioequivalency studies? A. It's not there, so it got The presence of NDMA and NDEA in removed. But it wasn't removed for any particular valsartan, are you asking if that would have an reason that I can give you. effect on valsartan's bioequivalence? 12 12 And you're the one that removed Correct. Does NDMA or NDEA being 13 that language? in valsartan and the NDMA or NDEA reaching 14 I wrote this, so it would have systemic circulation, does that have any impact on A. 15 been me. valsartan bioequivalency studies? 16 Q. And there's no particular reason MR. FOWLER: Objection: Form, 17 you removed the language about nitrosamines being compound. probable human carcinogens? 18 THE WITNESS: First, I'm -- I'm 19 19 MR. FOWLER: Objection, form. trying to speak real loud to make sure 2.0 2.0 Other than the scope of the that you can hear. So if it seems like 21 21 report? I'm yelling, it's not in an -- an 22 2.2 THE WITNESS: And so, no, aggressive kind of response. 23 I -- I'm -- I'm the one, if it came out, BY MR. VAUGHN: 24 that took it out. And there was no Q. I appreciate it and your -- your 25 ²⁵ level is actually pretty good. particular reason for that.

Page 18 Page 20 Okay. I -- I just didn't want it ¹ almost completely, minimizing exposure to other ² to come across as -- but I wanted to be sure I got tissues and organs." ³ heard. Do you see that in your prior No, I do not believe that the report, Dr. Bottorff? ⁵ presence of NDMA or NDEA in valsartan has anything A. I do. ⁶ to do with valsartan's bioequivalence. All right. And let's compare ⁷ that to the sentence that starts on lines 761 of Q. And it reaching systemic 8 circulation -- scratch that. your class action expert report that reads: "Oral ⁹ doses at the levels detected in generic valsartan And NDMA or NDEA reaching ¹⁰ systemic circulation has nothing to do with the at issue in this litigation are metabolized in the ¹¹ bioequivalency studies for valsartan, correct? ¹¹ liver almost completely, preventing exposure to MR. FOWLER: Objection: Form, other tissues and organs." 13 lack of foundation, facts not in Did I read that correctly, 14 ¹⁴ Dr. Bottorff? evidence. 15 15 THE WITNESS: Because I conclude A. Yes. 16 16 that they would not reach the systemic Q. What changes did you make in that 17 circulation, then, again, my best answer sentence from your general causation expert report 18 to your question is that they have no to your class action expert report? 19 effect on valsartan's bioequivalence. 19 A. I don't feel that I made any 20 BY MR. VAUGHN: 20 substantial changes at all. 21 21 Q. The opinion that NDMA and NDEA in Q. Okay. Do you see in the general ²² valsartan will not reach systemic circulation is causation report you used the word "minimizing ²³ in relation to your general causation opinions, exposure to other tissues and organs"? The word "minimizing"? ²⁴ correct? 25 25 MR. FOWLER: Objection: Form, A. Yes. Page 21 Page 19 1 mischaracterizes. And do you see that that's been 2 THE WITNESS: I think it's, as I changed to the word "preventing"? It now says: 3 ³ "...preventing exposure to other tissues and said earlier, that there is some overlap 4 4 organs." in some of the issues between general 5 5 causation and this part of the Do you see that? 6 6 litigation, as I understood it, and the I do. Α. 7 concept of -- of first pass metabolism Q. Do you not think there's much of 8 is one of those areas of overlap between a difference between "minimizing" and 9 the two reports. "preventing"? 10 ¹⁰ BY MR. VAUGHN: MR. FOWLER: Objection, 11 11 Q. How does first pass metabolism of argumentative. 12 12 NDMA or NDEA impact the bioequivalency studies of THE WITNESS: Conceptually, what 13 valsartan? those two sentence [sic] were -- I think 14 14 A. It does not. mean the same thing about -- because of 15 15 MR. VAUGHN: Melisha, let's go to first pass metabolism, that you minimize 16 16 page 48 of his class action expert exposure, you prevent exposure, you 17 17 report. Let's compare that to page 28 minimize/eliminate risk, and I think 18 of his general causation expert report. 18 they're -- they're just a reflection of 19 19 Looking at line 486 of his general the fact that I did not just simply cut 2.0 20 causation report where it says: and paste from my previous report 21 21 "Minimizing exposure to other tissues into -- into this report. I -- I sat 22 22 and organs..." down and wrote it de novo with the same 23 BY MR. VAUGHN: 23 knowledge base and information. 24 Q. And the full sentence reads: BY MR. VAUGHN: 25 ²⁵ "Smaller oral doses are metabolized in the liver O. And this sentence that you

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changed has nothing to do with the bioequivalency
 studies, correct?

A. Correct.

MR. VAUGHN: Let's go to page 52 of his class action expert report, Melisha. And let's compare that to page 62 of his general causation expert report.

⁹ BY MR. VAUGHN:

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- Q. All right. In looking at the class action expert report, line 830, do you see where you note that: "DNA repair mechanisms in humans can be as much as ten times higher than rats"?
- ¹⁵ A. Yes.
- Q. Okay. And looking at your general causation expert report, do you see that language anywhere?
- A. Not in the page that -- that you have in front of me.
- Q. Do -- do you have your general causation expert report?
- A. I can probably get a hard copy because we have a printer here, but I don't have it sitting right in front of me.

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Q. Okay. You can also download it from the exhibit share file, if you would like to. All right. Dr. Bottorff, if you could, could you review your general expert report and see if anywhere in that report you gave the opinion that DNA repair mechanisms in humans can be as much as ten times higher than rats?

9 MR. VAUGHN: And let's go ahead 9 and go off the record while he's 10 reviewing this document.

11 THE VIDEOGRAPHER: The time is 12 now 9:59 a.m. We are off the record.

(Brief recess observed.)

THE VIDEOGRAPHER: 10:06 a.m., we're back on the record.

16 BY MR. VAUGHN:

Q. All right. Dr. Bottorff, now
that you've had time to review your general
causation expert report, did you find anywhere
within that report that you gave the opinion that
DNA repair mechanisms in humans can be as much as
ten times higher than rats?

A. No, I -- I didn't find it.

²⁴ And -- and what I was looking for and what I

25 thought I had in there -- and it may still be in

¹ there; I just didn't have enough time to find

² it -- is I thought I made a statement somewhere in

³ the report that said that the metabolism of -- of

⁴ NDMA in the liver was occurring in the organ that

Page 24

had the highest capacity to metabolize it.
 And that -- that may be in there

somewhere if I go line-by-line and try to find it.
 So I may not have quantified it in the original
 report, and I quantified it here from a statement
 made in -- in one of the PEG articles.

- Q. Does quantifying the DNA repair mechanisms in humans compared to rats have anything to do with your class action opinions?
 - A. Yes.

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- $^{\rm 15}$ Q. I'm sorry? I didn't hear that $^{\rm 16}$ answer.
- A. Sorry. Yes.
- Q. What does it have to -- what

19 does -- scratch that.

What do DNA repair mechanisms in humans have to do with your class action expert report?

- A. The issue of medical monitoring.
- Q. And how does that relate to medical monitoring?

Page 25

A. Based on first pass metabolism
and limiting exposure of NDMA and NDEA to the
liver, which has the best capability for DNA
repair mechanisms, would mean that there's no
exposure enough to downstream organs to justify

6 medical monitoring, based on these principles of

both first pass metabolism and DNA repair.
 So would it be fair to say that

Q. So would it be fair to say that
the DNA repair mechanisms relate to your class
action expert report because you don't believe
that nitrosamines can increase the risk of cancer
in humans?

MR. FOWLER: Objection, form. THE WITNESS: Yes. And that's consistent with what I concluded in my original report, and it's a portion of what I continue to conclude in this expert report.

¹⁹ BY MR. VAUGHN:

Q. And so you would agree that's a
general causation expert opinion, the DNA repair
mechanisms in humans?

MR FOWLER: Objection: Form

MR. FOWLER: Objection: Form, mischaracterizing.

THE WITNESS: I would agree that

Page 26 1 1 it has relevance to both the general THE WITNESS: It is as a result 2 2 causation issue in my original report of metabolism, and to a certain degree, 3 3 and to the medical monitoring issue that distribution after IV administration 4 I addressed in this report. 4 that would result in taking 13 minutes 5 ⁵ BY MR. VAUGHN: in the estimate in humans, and anywhere 6 Q. And when we went off the record between 4 and 26 minutes in other animal ⁷ for you to review your general causation expert 7 species who received IV dosing, for that 8 ⁸ report and Mr. Fowler went off the screen, did he original concentration to be cut in discuss any part of your testimony with you? 9 half, and in that same amount of time, 10 10 A. No. None at all. for that concentration to be cut in 11 11 MR. VAUGHN: All right. Melisha, half. 12 can we go just to his class action BY MR. VAUGHN: 13 13 expert report, which is Exhibit 1. And So let me make sure I O. 14 14 let's go to page 50 and look at line understand ---15 15 802. -- and approximately --A. 16 BY MR. VAUGHN: Q. I apologize. 17 17 Q. Doctor, in this paragraph, you're Sorry, go ahead. discussing the half-life of NDMA, correct? 18 Q. I'm sorry if I cut you off --19 19 MR. FOWLER: Let's not --Correct. 20 20 And in your opinion, what is the O. BY MR. VAUGHN: 21 half-life of NDMA in humans? 21 O. -- with the delay. 22 22 It's estimated to be about 13 MR. FOWLER: -- do that. Yeah. 23 minutes. BY MR. VAUGHN: 24 O. And what are you basing that O. It -- it was not intentional. ²⁵ estimation on? 25 A. Yeah, so I'll -- I'll finish, and Page 29 Page 27 I'm using the clearance values ¹ then we can take that question. ² from one of the Gombar papers. So literally what it amounts to Did you find the Gombar paper to ³ is whatever that original concentration is after Q. ⁴ you give it intravenously, the half-life -- let's 4 be reliable? 5 ⁵ take a round number of ten minutes. It would take MR. FOWLER: Objection, form. THE WITNESS: In some respects. ⁶ ten minutes for that concentration to be cut in BY MR. VAUGHN: ⁷ half. In ten more minutes, that would be cut in ⁸ half. And by the time you got to five of those, O. What is half-life? ⁹ you can't detect the drug anymore. So a general A. The time it takes for a compound pharmacology rule is five half-lives and the drug 10 amount to be cut in half. 11 is essentially completely gone. What do you mean "cut in half"? Q. 12 A. Drop by 50 percent. 12 So did I understand you correctly 13 Is that after it's been ingested? that if NDMA is given intravenously to a human, 14 No. These diag- -- these numbers it's going to take approximately 13 minutes for it came from the intravenous data from Gombar, which to decrease by half? is the part that I don't have any problem with at A. An estimate from the Gombar data 17 all. would predict that, if you were to give it IV. 18 But the half-life is in relation 18 O. And do you agree with that 19 to the substance being inside the body, correct? estimate in Gombar? 20 20 A. And in this case, getting there A. I think it's actually a pretty ²¹ by giving it IV. 21 good estimate. 22 22 And so that would mean after 13 O. Would it matter how much of a ²³ minutes, if no metabolism is taking place of the dose is given IV? Will that impact the half-life ²⁴ NDMA, half of it will have disappeared? 24 at all? 25 25 MR. FOWLER: Objection, form. A. It could.

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O. How so?

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If -- if a smaller dose is given ³ that is in the range of what we call linear ⁴ pharmacokinetics, you'll get a -- a half-life ⁵ value. And if -- if it's a process that can be ⁶ saturated and you give a multiple higher dose, ⁷ then you would saturate elimination and you would

- ⁸ get a measured longer half-life. Q. And in the Gombar study where you drew this 13-minute half-life, was it saturated or 11 not?
- 12 Gombar used his nonsaturated IV dose to calculate and then estimate what he thought it would be in humans.
- 15 O. And so in a nonsaturated IV dose in humans, NDMA would take 13 minutes to reduce 17 the amount in half?
- 18 Α. That is an estimate from the Gombar data.
- 20 Q. Doctor, do you know how long it ²¹ takes for the blood to do a full circulation in 22 the human body?
- A. Off the top of my head, I -- I ²⁴ don't. I know I used to know that. And sometimes ²⁵ you'll see that expressed as how many cycles per

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¹ day or how man- -- how long it takes for one ² cycle. So I know that's available information,

³ but I don't have it off the top of my head.

O. Do you have an estimate, even?

A. I know blood volume is

⁶ approximately 5 liters. Typical cardiac output is

⁷ about 3 to 4 liters per minute. So it -- it

⁸ shouldn't take long. Less than ten minutes, maybe 20 minutes. I can't verify that.

O. I mean, if -- if cardiac output ¹¹ is around 4 liters and blood volume is around 5

12 liters, wouldn't you think that it goes all the way around the body in about a minute?

14 Yeah, I don't think that's the A. 15 case, though.

Q. Okay. You think it might be less 17 than 13 minutes, though?

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19 MR. FOWLER: Objection, 2.0 we're -- we're -- calls for speculation. 21 He's answered this.

THE WITNESS: I really don't know. I'd have to look it up, because it's been a while since I've had to use that information.

¹ BY MR. VAUGHN:

Q. If the blood can go all the way around the human body multiple times in 13 ⁴ minutes, the NDMA would be crossing the liver multiple times, wouldn't it?

MR. FOWLER: Objection: Form, lack of foundation, facts not in evidence, incomplete hypothetical.

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THE WITNESS: The -- the best answer I can give you in a conceptual is that when a drug is given IV, whether it's NDMA or, you know, a -- an FDA-approved drug, giving it in the IV route, it does eventually, if it is metabolized in the liver, pass through the liver as part of its route of elimination.

BY MR. VAUGHN:

19 Q. If the liver is able to fully metabolize NDMA and systemic circulation takes ²¹ less than five minutes, you wouldn't expect the ²² half-life to be 13 minutes, would you?

The issue that I have in being ²⁴ able to answer it to the best of my ability is 25 that I'm not sure the first part of the question

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¹ is accurate. I think I would need to establish ² how long it takes.

But remember the liver only gets part of -- of cardiac output. Part of cardiac output goes to other organs as well.

Q. All right. Sitting here today, ⁷ though, you have no idea how long it actually takes for the blood to go around the human body, do you?

No. I -- I -- as of right now, I don't. I know the value if I were to -- to look it up, but I don't have it in front of me.

Q. And that's not something you've ¹⁴ looked into in forming your opinions for either of your expert reports that you've submitted in this litigation, correct?

Correct. And -- and nor do I know the relevance that have any impact on my 19 opinions anyway. 20

MR. VAUGHN: All right. Melisha, let's go to his invoices.

And this will be Exhibit 3. It is a composite exhibit of all of the invoices that were produced. (Exhibit 3 was marked.)

Golkow Litigation Services

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1 ¹ September 16th, which was the date of the actual MR. VAUGHN: All right. Let's go ² deposition, you also billed two-and-a-half hours to page 3. ³ for reviewing articles in advance of the ³ BY MR. VAUGHN: Q. All right. Doctor, and do you ⁴ deposition. So that's just the morning of the ⁵ see that you submitted a bill for eight hours of ⁵ deposition you're billing? ⁶ deposition time on September 1st, 2021? A. Correct. A. That should probably be November. Okay. And then the next one on Q. ⁸ So that's a typo. ⁸ October 6th, you note that you: "Preview/find 9 ⁹ Wang article for inclusion and articles Q. Why should that be November? 10 A. Based on the in- -- sorry? considered." 11 11 Why should that be November? O. What does that mean? 12 12 Oh, no. That -- is that the date A. A. That I looked at those articles that we did the previous deposition? 13 to see if I wanted to include them in my articles 14 Well, we actually did the for consideration. previous deposition on September 16th, which you That was after you submitted your also billed for. ¹⁶ expert report and after you sat for deposition, 17 ¹⁷ correct? MR. VAUGHN: Melisha, if you want 18 18 to go to page 5 on his invoices. Α. Correct. 19 ¹⁹ BY MR. VAUGHN: MR. VAUGHN: Let's go to page 7, Q. Now we have another bill for 20 Melisha. ²¹ \$4,000 for an eight-hour deposition on September ²¹ BY MR. VAUGHN: ²² 16th, 2021 also in Knoxville and the same start 22 Q. All right, Doctor. Is this where ²³ and end time. ²³ you started working actually on your class action expert report? A. Yes. I understand now what ²⁵ happened. I sent an invoice to GT for the date of A. Correct. Page 37 ¹ the deposition, not knowing that that's not who And throughout this I note names ² should have received the invoice. So this invoice ² Steve Fowler, Ken -- I'm not even going to try and ³ that I sent to GT was never paid. ³ pronounce that last name -- T. Harper. Are these The other invoice was sent ⁴ all GT attorneys? 5 ⁵ to -- I don't know which law firm, but they are A. Yes. ⁶ the one who eventually paid that invoice. So I And is Greenberg Traurig, is that ⁷ was not paid twice for that deposition. ⁷ the law firm you were working with in generating Q. Why is there a date inaccuracy of this class action expert report? it being September 1st on page 3 of your invoice? A. Yes. A. Because I'm not very good at Q. Is that the only law firm that ¹¹ sometimes having the correct date on there. you were working with? 12 MR. VAUGHN: All right. Can we 12 A. 13 13 go to the next page, Melisha, page 4. O. And you were providing opinions on bioequivalency studies of all of the Defendants ¹⁴ BY MR. VAUGHN: 15 in this litigation, correct? Q. And on September 1st, on this ¹⁶ bill, you also billed three-and-a-half hours for Yes. All that I received A. reviewing Lagana's deposition and conference call 17 information on. ¹⁸ with counsel, correct? And GT, Greenberg Traurig, was 19 the one responsible for giving you documents for A. Correct. 20 Is that what you actually did each Defendant? Q. 21 ²¹ then on September 1st instead of the deposition? MR. FOWLER: Objection, form. 22 22 Yes, because we just previously THE WITNESS: Yes. ²³ established that that was not the date of the 23 Every -- every document from ²⁴ deposition. 24 manufacturers on ANDAs and 25 25 Okay. And then looking at bioequivalence studies that I received,

Page 38

1 that came through GT. I did not deal with any of the companies directly.

³ BY MR. VAUGHN:

- Q. Or any of the other law firms?
- Or any other law firms.
- And so if there were additional documents that you wanted to review, Greenberg
- Traurig attorneys would have been who you went to?
- 9 Yes.

5

- 10 Q. Were there documents that you ¹¹ specifically asked to see, or is it just documents that Greenberg Traurig gave you?
- 13 A. I asked GT to send me, from as ¹⁴ many of the manufacturers as they could, ¹⁵ bioequivalence studies that were used to file
- ¹⁶ and -- and received approval for their ANDAs.
- ¹⁷ And -- and then it was out of my hands what I
- ¹⁸ received at that point. It was up to the
- 19 companies to find and send me those reports
- ²⁰ through GT.

¹ what I did get.

- 21 Q. And so you would have expected ²² that all of the bioequivalency studies were given to you, correct?
- A. I don't expect that. I didn't 25 know what I was going to get. I just evaluated

¹ manufacturers, instead of several thousand pages,

- ² I only received the BE data only, and so I didn't
- ³ have to sift through for some of the situations a
- ⁴ lot more information than necessary for what I was ⁵ doing.
- Q. Do you recall for which companies that was?
 - A. Not off the top of my head, no.
- 0. A second ago you testified that
- the submission process is to include the BE data.
- By that, do you mean that the company is supposed to submit all of their bioequivalency data and
- studies with their ANDA?
 - A. I believe that to be the case.
- 15 And that's why you thought it was appropriate just to review the ANDA for their bioequivalency data, correct?
- A. Well, or the bioequivalence data, if that's all they sent me. I -- it was the bioequivalence data that I was most interested in.
- Q. And when you're talking about the data, did you actually review the underlying data
- or did you just review the final report?
- A. It depends on the format that it ²⁵ came to me. There was often a lot of underlying

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19

14

Q. So I note typically on this you

³ note that you're reviewing ANDA files for

⁴ bioequivalency data. Why is it the ANDA files

⁵ that you're reviewing to find the bioequivalency ⁶ data?

It's -- the part of the ANDA ⁸ submission process is to include the -- the BE

⁹ data. So I would often get a file that had 50,

¹⁰ 60, 70 folders in it, and I had to sift through

¹¹ those and find the ones that actually had the ¹² bioequivalence data in there.

So there's data on analytical,

¹⁴ the case report forms on all the volunteers who

¹⁵ were in the studies, what their lab values were,

¹⁶ their physical exam results. I mean, there was a

¹⁷ lot of information that's included, and it was

¹⁸ just the BE data that I was interested in sifting 19 through and finding.

- Each of those ANDAs are several ²¹ thousands of pages, correct?
 - A. Correct.

22

23

- And when you said --O.
- A. Just to add -- I'm sorry. Just
- ²⁵ to add and see if it helps. For some of the

¹ data. There were bioequivalence data in humans.

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- ² A lot of that had subject-by-subject what their
- ³ individual values were. Then it had summary data
- ⁴ on top of that. It just depended on the format in
- ⁵ which I received it.
- And did you look into the testing
- ⁷ methods that were employed in the different bioequivalency studies?
- In some of the more extensive
- files that I received, there were testing data. 11
 - And -- and for which
- ¹² manufacturers did you have the more extensive data?
- 14 Again, I'd have to go back
- and -- and look at my files to make that kind of accurate answer.
- 17 Was it a majority or a minority of the Defendants that you had extensive data on?
 - A. I'd say it was about half. So
- ²⁰ when you look in my report to see which BE studies
- ²¹ I included, I'd say about half of those came from
- ²² looking at a lot of extensive information, and
- ²³ some were a little bit more targeted towards just
- ²⁴ the bioequivalence data. 25 MR. VAUGHN: Melisha, let's go to

Page 42 Page 44 the first page of those invoices again. ¹ one you're on right now. ² BY MR. VAUGHN: Yeah, the last one? Q. And I just want to run through I have not -- I have not been A. ⁴ the billing amount, total billing amounts, Doctor. paid for that one. So this first invoice was Okay. And then do you have ⁶ \$26,000, correct? outstanding time that you have not billed? Yes. Between the end of last A. Correct. 8 MR. VAUGHN: And second invoice, week and up until today, I've not billed for that. 9 Melisha, page 2. Q. And approximately how much time 10 BY MR. VAUGHN: 10 is that? 11 11 This was \$42,250, correct, Approximately, I'm going to say, O. A. 12 Doctor? 30 hours. 13 13 Correct. A. O. And what were you doing during 14 those 30 hours? And the third invoice was \$4,000, Q. 15 correct? 15 Reviewing my report, reviewing 16 A. Yes, but that may be the one that deposition transcripts of some of the Plaintiff did not get paid because I sent it to the wrong experts in this phase of the litigation, firm for payment. rereviewing some of the articles that I thought 19 were most important to my conclusions. And do you recall what firm you 20 20 sent that to? I think that's the majority of 21 the work. 21 A. I sent it to GT, and they sent it 22 to whatever firm was responsible for that. How many meetings have you had 23 Q. Then the next invoice is \$35,500, with counsel in preposit- -- preparation for this 24 correct? deposition? 25 25 A. We met yesterday here in Atlanta, Correct. A. Page 43 Page 45 1 ¹ and we had three remote sessions between the end Q. And the next invoice is \$4,000? of last week and the first part of this week. Again, that may be the overlap A. ³ with the other one. So both of those did not get When you say "we," is that all paid. One did; one didn't. ⁴ Greenberg Traurig attorneys? 5 5 Okay. And the next invoice is A. Yes. Q. 6 ⁶ for \$5,000? O. Approximately how many hours A. Correct. would you say those meetings were in total? 8 8 Maybe 16, 18 hours. O. And the next invoice is for A. \$41,000? And do you not charge Greenberg 10 Traurig more money for when you take a deposition A. Correct. 11 versus when you're just writing an expert report? Q. And your final invoice is for 12 12 \$46,084, correct? No, I don't charge differently. 13 13 Let's go ahead and take a five, A. Correct. 14 14 ten-minute break. O. And my math shows that all those together is \$204,000. If we drop that other 15 MR. VAUGHN: Is that okay, Steve? 16 MR. FOWLER: Five minutes would ¹⁶ 4,000, we're at \$200,000. Does that sound about 17 17 correct to you, Doctor? be good. But yeah, go ahead. 18 18 MR. VAUGHN: Sounds great. That sounds right. 19 19 Q. And have they paid all of those Can we get a breakout room? 2.0 20 invoices to date? THE VIDEOGRAPHER: Yes. 21 21 Α. Yes. The time is now 10:35 a.m. We're 22 And do you have additional time 22 now off the record. Q. that you have not billed, that is not reflected in 23 (Brief recess observed.) 24 24 THE VIDEOGRAPHER: The time is this billing? 25 25 10:43. We're back on the record. No, I'm sorry. I'm sorry. The

Page 46 1 1 MR. FOWLER: Objection to form. MR. VAUGHN: All right, Melisha, 2 can we go back to Exhibit 1, THE WITNESS: Again, I don't know 3 3 Dr. Bottorff's class action expert if it was or wasn't, because report? And let's go to page 30. 4 I've -- I've not traced company ⁵ BY MR. VAUGHN: documents about that kind of thing. ⁶ BY MR. VAUGHN: Q. And, Doctor, is this where you ⁷ begin discussing these bioequivalency studies of Q. Right. I understand that the various Defendants? you're -- you do not know, Dr. Bottorff, but if 9 ⁹ it's an "if-then" question. If it was not Yes. 10 O. All right. This first one that contaminated, then this would not tell you ¹¹ you note is for Teva valsartan, and it's ANDA anything about if nitrosamines impact valsartan's ¹² 090642, correct? bioequivalency, correct? 13 13 A. Correct. A. In and of itself, no. 14 14 Going down to line 496, you have And those studies, you note, were ¹⁵ conducted in 2004, correct? ¹⁵ a sentence that reads: "The AUC and Cmax values 16 ¹⁶ are expressed as geometric means rather than the Α. Correct. 17 In your opinion, was Teva's more common arithmetic means, since the valsartan contaminated with nitrosamines in 2004? pharmacokinetic data are usually more log-normal 19 I don't believe so, but I don't distributed, such that geometrics means giving more accurate description of the central tendency know for sure. 21 of the data." 21 O. Is that something you asked 22 22 counsel? Can you explain what that means 23 to me, Dr. Bottorff? Α. Is that something you looked into A. I -- I can as much as neither you Q. ²⁵ or I are not statisticians. But this is the 25 in any way at all? Page 47 Page 49 ¹ common way in which all of these bioequivalence No. A. If Teva's valsartan in 2004 was ² studies are conducted. It's expected in -- from O. ³ not contaminated with nitrosamines, how does this ³ the FDA when these are submitted that they're ⁴ study support that nitrosamines won't impact the ⁴ analyzed in that fashion. And it's done for the ⁵ reason that I list here, which has to do with how ⁵ bioequivalency of valsartan? A. In this particular case, I was ⁶ the data are distributed across normal volunteers. ⁷ wanting to be thorough and include as many of the A lot of statistics are done ⁸ bioequivalence studies as I could get and not ⁸ assuming that a negative value could be the same ⁹ leave those out that -- for whatever reason or any ⁹ as a positive value, which would lead to that ¹⁰ other reason. So I asked for all of them. And ¹⁰ normal distribution in statistics. But when you ¹¹ every one of them that I got, I included in this give a drug and measure AUC, it can only go up. 12 report. 12 It can't go down. So that's part of this unequal 13 In the body of your expert 13 distribution that leads to this format of ¹⁴ report, you included every single bioequivalency demonstrating the central tendency using the --the ¹⁵ study that was provided to you by Greenberg log-normal data. ¹⁶ Traurig? 16 I can describe how it's done, if That was provided to them by the you want to know. 18 companies who were requested to send it to me, 18 Q. You're not a statistician, are 19 19 you, Dr. Bottorff? 20 20 And so you would agree, though, No, but I've had classes in ²¹ statistics and I've actually taught classes in ²¹ that if, in 2004, Teva's valsartan was not ²² contaminated with nitrosamines, this biostatistics. ²³ bioequivalency study does not tell you if What is your prior experience ²⁴ nitrosamines will impact the bioequivalency of ²⁴ with bioequivalency studies?

25

²⁵ valsartan, correct?

My first bioequivalence study

¹ experience was when I was a -- a -- a trainee in

² my residency at the University of Kentucky, and I

³ worked in a unit that conducted these kind of

⁴ bioequivalence studies. And I've done some of my

⁵ own bioavailability studies where the conduct of

⁶ the trial is essentially the same.

What does geometrics mean? What 8 does that mean?

Yeah. An arithmetic mean is you ¹⁰ take -- let's say we are have three numbers, A, B,

¹¹ and C. You take A plus B plus C, and then you ¹² divide by three and that's the arithmetic means.

¹³ The geometrics mean is you multiply A times B

¹⁴ times C, and then you take the cube root of that ¹⁵ number.

16 Q. And why does the geometric mean then give a more accurate description of the central tendency data?

19 Well, that's where it gets beyond ²⁰ my statistical understanding, other than it's ²¹ what's expected to be done in these kind of ²² studies, is they use the geometric instead of the ²³ arithmetic mean.

Are you familiar with the term O. 25 "harmonic mean"?

¹ level versus time data that go sort of up and

² down, and you try to find the model that draws the

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³ best fit through that data, each data point that's

⁴ not on that line -- as there's a difference

⁵ between the point and the line that's calculated.

⁶ And then the line is refit, the line is refit, and

⁷ you take the square of that difference between the

points in the line, and then you select the model

⁹ that gives you the least squares difference

¹⁰ between the predicted values and the observed ¹¹ values.

12 Is there a difference between Q. least square means and geometric least square 14 means?

15 No. I think that's a different way of wording the same process that's done in bioequivalence studies.

Q. And what's going to give a more accurate description of the central tendency of data, a geometric mean or a geometric least squares mean?

> A. It's the same thing.

23 Oh, those are interchangeable as Q.

24 well?

22

25

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3

4

14

A. Those -- those are

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A. Yes. There are -- there are

² multiple ways of -- of displaying central ³ tendency. That's another one.

Q. What is a harmonic mean?

5 I've never used it, so I can't define it for you off the top of my head.

> Q. What about a least squares mean?

That's really part of these as A.

⁹ well, is because the FDA expects you, when you do ¹⁰ a comparison from drug A to drug B, to not give

¹¹ everybody drug A first and drug B second. Some

¹² people will get drug B first and drug A second. ¹³ And so you put that into a regression model along

¹⁴ with the means, and the regression model that

¹⁵ gives you the least difference, which is the least

¹⁶ squares fit to the data, are how you determine the

¹⁷ actual values that are going to be reported. So

¹⁸ it's part of the regression model.

19 What did you mean by "you put ²⁰ that into a regression model along with means and ²¹ the regression model that gives you the least

²² difference"? What do you mean by "the model that

gives you the least difference"?

A. Yeah. The -- the best way I can ²⁵ describe it is if -- if you have average blood ¹ interchangeable.

Q. Thank you.

> MR. VAUGHN: All right. Let's go to page 31 of his expert report now.

5 And looking down at the paragraph that

6 starts on line 508.

BY MR. VAUGHN:

Q. I like that you line number your expert report, by the way. It makes it much easier to go through.

11 So this is the Princeton ANDA for the valsartan 320 milligram, ANDA 204821, correct, Doctor?

> A. Correct.

15 O. And the two studies that were done here, there was a fasting study, H237-11. 17

What is a fasting study?

18 A. Typically the FDA requires, when you do these studies, to do one study in -- where you dose in the morning after an overnight fast so ²¹ there's no food in the stomach, and then you

²² repeat the study with food in the stomach

23 to -- like after a standard breakfast kind of meal ²⁴ to see if there's any effect of food altering the

²⁵ bioavailability or the bioequivalence.

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Q. And you note that these studies
were done in March and April of 2012. Did you
look into the manufacturing date of the product
that was actually tested in these bioequivalency
studies?

A. I -- I didn't for a -- a point of
record, but most of the files that I received,
there was a section you could go to and it would
talk about the date of actual production of what
was going to be called the test product, and they
teven had the date of production of the -- of the
reference Diovan. And they would even often have
what the testing results on those individual
products were.

You know, if it said it had
You know, if it said it had
16 320 milligrams, did it have 320 or right around
there? So those were often included in the
records that I reviewed.

Q. Do you recall approximately how much earlier most of the manufacturing dates were than study dates? Several months?

A. A few months. These are usually batches that are not so large, because they want to prove that they can demonstrate bioequivalence with them before they go into more larger scale

¹ studies on bioequivalency don't tell you anything

² on if nitrosamines impact valsartan's

³ bioequivalency, correct?

bioequivalency, correct?
 A. Not by itself.

Q. And what do you mean by "not by

6 itself"?

5

A. Well, this report -- and I'm sure

8 we're going to keep going through it -- is going
9 to be leading to other bioequivalence studies with

10 some of the combination products where I

¹¹ demonstrate that the addition into a valsartan

tablet of milligram quantities of other compounds

13 that do not have overlapping metabolic or

¹⁴ distribution pathways do not also alter the

¹⁵ bioequivalence. And so to me, it doesn't -- if it

¹⁶ is or isn't in there, it's not going to alter the

¹⁷ bioequivalence pattern.

Q. About line 513, you discuss
 Hetero Labs' ANDA 203311 and Studies

²⁰ 10-VIN -- V-I-N -- -337 and Study 330-VALS-2011,

²¹ and you note that these studies were conducted in

²² February and July of 2011, correct?

A. Correct.

Q. And do you know if Hetero Labs'
 valsartan was contaminated with nitrosamines in

Page 57

Page 55

¹ production.

Q. Do any additional tests related to bioequivalency have to be done when a company

⁴ scales up production?

A. I know there are times. The majority of these, the FDA requires the in-human bioequivalence study to be done on the largest tablet size that you're going to market. That's

9 why these are almost always in the 320 milligram
 10 dosage. And then you're allowed to do in vitro

¹¹ dissolution testing with the smaller doses.

So even though the bioequivalence study might have been done with the 320, the ANDA

¹⁴ got approved for 40, 80, 160, as well as the 320.

 $^{15}\,$ And that was often done based on dissolution

16 testing. So when you upscale, you can often

 $^{17}\,$ demonstrate bioequivalence using the dissolution

testing rather than repeat your human trial atthat point.

Q. And do you know if Princeton'svalsartan was contaminated prior to March of 2012?

A. I don't specifically know that.

Q. And, again, if Princeton's

22

24 valsartan was not contaminated with nitrosamines

²⁵ at the time of this study, then this -- these

1 2011?

A. Again, I don't. It -- it's my

³ understanding that some of these generic

⁴ manufacturers were making their drug with a

⁵ process that may have had nitrosamines in it and

⁶ they didn't know it. So I can't tell you with

⁷ each company where that was and when that

⁸ happened. I -- I'm somewhat certain that some of

⁹ these did and it wasn't known, but it still didn't

alter the bioequivalence.

Q. And so is it your testimony today that Hetero Labs' valsartan might have been contaminated with nitrosamines dating back to at least 2011?

A. It is my testimony that I don't know which companies may have had it, but that I'm suspicion [sic] -- my suspicion is that some did, and I don't know which.

Q. All right. Go to page 32, line 20 517. You are now discussing a Torrent

 $^{21}\,$ Pharmaceuticals' ANDA 202728 with Studies

²² PK-09-100 and Study PK-09-103. These are on ²³ valsartan 320 milligrams, and you note that the

²⁴ studies were done in July of 2010, correct?

A. Yes.

12

13

And Torrent's valsartan, is it ² your opinion that it was contaminated with ³ nitrosamines back in 2010?

A. It is my opinion that I don't ⁵ know if it was or not.

And if Torrent's valsartan was ⁷ not contaminated with nitrosamines back in 2010. ⁸ these bioequivalency studies don't tell you ⁹ anything in relation to if nitrosamines impact the ¹⁰ bioequivalency of valsartan, correct?

11 And, again, as I said before, not ¹² in and of themselves. But as we keep working 13 through this, you'll see one of the premises about ¹⁴ having combination products with more than ¹⁵ valsartan, like hydrochlorothiazide in ¹⁶ six-and-a-half -- or six-and-a-quarter up to 25 ¹⁷ milligrams, amlodipine 5 or 10 milligrams, having ¹⁸ no effect on the bioequivalence of -- of valsartan

¹⁹ because of a lack of overlapping metabolic ²⁰ pathways. 21 And so as I've -- I've

²² demonstrated in both reports, the lack of an ²³ overlapping metabolic pathway between the ²⁴ nitrosamines and valsartan, that there would be no ²⁵ reason, and in fact there couldn't be any reason,

Page 59 ¹ to have that have any effect on the bioequivalence

What were the two combination ⁴ drugs that you just mentioned? Amlodipine and ⁵ what was it?

Hydrochlorothiazide. Those are ⁷ the components of the brand name Exforge or ⁸ Exforge HCT.

Q. Are either of those drug 10 genotoxic -- genotoxins?

11 A. No.

12

² of valsartan.

Are nitrosamines genotoxins?

13 A. In animals, yes, depending on the ¹⁴ exposure level.

15 All right. On the PK-09-103 ¹⁶ Study, on that far right-hand column, it says: ¹⁷ "90 percent C.I."

18 What does the C.I. mean? 19 A. It's a confidence interval. The ²⁰ 90 percent confidence interval around that value ²¹ in the column before it, which is the percentage ²² similarity between the brand name and the test ²³ product. So it's a -- an -- the average value ²⁴ with the 90 percent confidence limits around that ²⁵ value. And these are to -- these confidence

¹ limits are to demonstrate that they remained

² within the FDA guidelines of the confidence limits

³ being allowed to be as low as 80 percent or as

⁴ high as 125 percent.

So does that mean that --

That would be for the A- -- I'm sorry. Whether that be for the AUC value or the Cmax value.

Q. And so does that mean that 10 percent of the population is allowed to fall outside of the 80 percent to 125 percent range?

No, that's not what it means.

Can you explain further? Ο.

Sure. What it means is that if A. you were to redo this experiment 100 times, 90 ¹⁶ times you would still get values that are between that range of upper and lower limit. So it's more of a statistical value than a what-happenedto-a-patient value.

Q. I understand now. I appreciate ²¹ that clarification.

22 And so on the PK-09-103, it's ²³ getting up to 123.65 percent, and that's okay ²⁴ because it's less than 125, correct?

> Correct. That's the upper limit A.

> > Page 61

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¹ of the FDA's guidelines for demonstrating ² bioequivalence.

MR. VAUGHN: Let's go to page 33,

Melisha.

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2.0

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BY MR. VAUGHN:

All right. Line 537 and 538, you

note that: "HCTZ" -- and what's HCTZ?

Hydrochlorothiazide.

Is it okay if I refer to it as

HCTZ in the deposition?

For me it is. A.

12 Appreciate it.

You note that: "HCTZ is

primarily eliminated through the kidney," correct?

Correct. A.

16 And then you say: "Therefore, Q.

17 HCTZ would have no pharmacokinetic or

pharmacodynamic overlap with valsartan or NDMA or

19 NDEA." correct?

A. Correct.

21 Q. And why is that?

Well, there's multiple parts to

²³ that question. I previously demonstrated how

²⁴ valsartan is absorbed, taken up into the liver,

²⁵ excreted in bile and has a mild cytochrome P450

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¹ pathway of elimination. None of those are shared 1

² by Hydrochlorothiazide. None of those are shared ³ by NDMA or NDEA.

And I guess I should add that's

- ⁵ the pharmacokinetic reason for no overlap. The
- ⁶ pharmacodynamic reason is that -- that gets to
- ⁷ their mechanism of action. How does
- ⁸ Hydrochlorothiazide lower blood pressure? Not the
- ⁹ same way that valsartan does. So there's no
- ¹⁰ overlap between their -- their blood pressure
- ¹¹ effects. So that would be a lack of a
- pharmacodynamic-shared mechanism.
- 13 Q. And so is part of the reason that ¹⁴ there's no overlap is they're being metabolized in ¹⁵ different organs?
- 16 A. Well, that's part of it. Part of it can be you're metabolized in the same organ but ¹⁸ by a different pathway. You would still then have no overlap.
- 20 Q. And NDMA is metabolized, in your 21 opinion, in the liver, correct?
- 22 A. And how it's given and how much dose is -- is given.
- Q. The NDMA that has been ²⁵ contaminated in valsartan, it's your opinion that

Q. And is --

- Different from valsartan, A.
- separate from NDMA.
 - Thank you. You knew my next Q. auestion.

Now, I don't see that you gave an opinion like you did with HCTZ that it would have no pharmakinetic [sic] or pharmadynamic [sic] overlap with valsartan or NDMA/NDEA.

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Is that also your opinion, though, with amlodipine?

- 12 A. Yes. I -- I say the same thing in the next sentence, but in a slightly different way, because there's no identified mechanism of drug interaction or no overlapping route of metabolism.
 - Can liver cirrhosis impact the Q. metabolism of any of these drugs?
 - Not in a predictable fashion.
 - What do you mean by that? O.
- 21 Well, there are probably maybe as A. $^{\rm 22}$ many as 100 or 150 different cytochrome P450 pathways. Some of them have been studied for ²⁴ alterations in cirrhosis; some have not. Most do ²⁵ not show a change in their metabolic capability in

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- ¹ it's metabolized in the liver, correct?
 - When ingested orally, yes.
 - And valsartan itself is also Q.
- ⁴ metabolized in the liver, correct?

3

- By a different metabolic pathway ⁶ entirely.
- Q. And is that the P450 pathway that you were just mentioning?
- Well, there's a P450 pathway for 10 NDMA that's separate and distinct from the minor
- ¹¹ P450 pathway with valsartan.
- 12 Q. But they're both metabolized
- 13 through a P450 pathway, correct?
- 14 A. Correct, but a separate and distinct different P450 pathway.
- Q. And then line 545 you note that:
- "Amlodipine is primarily hepatically metabolized." 18 And that means metabolized by the
- 19 liver as well, correct?
- 20 A. Yes.
- 21 O. And -- I'm --
- 22 A. Again, by a distinct metabolic
- 23 pathway called 3A4.
- 24 P450, 3A4? Q. 25
 - Yes. A.

cirrhosis.

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2 So liver damage could impact the O. metabolism of these drugs?

MR. FOWLER: Object to form.

THE WITNESS: It's probably been studied and there's other types of liver damage from cirrhosis, so it can't be yes/no. You have to look at the type of liver damage and the specific P450 pathway to see what's actually been demonstrated or shown not to have an effect. But it can't be done as a

14 BY MR. VAUGHN:

blanket statement.

15 Do you have an opinion as to what type of liver damage would impact the metabolism of any of these drugs the most?

> MR. FOWLER: Objection: Form, foundation.

THE WITNESS: I don't. As I said before, it's not something you can say in a blanket yes/no format. So you'd have to literally look at each pathway and the multiple different types of hepatic disease to see what's been done

Page 66 1 Again, it -- it can't. There's and what's not been done. 2 MR. VAUGHN: Let's go to page 34, ² no mechanism for it to do such. This, again, 3 ³ study in and of itself is demonstrating that by Melisha. ⁴ BY MR. VAUGHN: ⁴ showing that you still get all the valsartan Q. And at 559, we're now at the ⁵ you're supposed to get, even when amlodipine is ⁶ present, because it doesn't share a metabolic ⁶ section on Exforge. What is Exforge? A. That's the brand name of the pathway. 8 ⁸ combination product of valsartan and amlodipine Did you even need to look at any of these bioequivalency studies, as you had made by Novartis. already determined that there's no way that 10 Q. Okay. So when one of the 11 companies is doing their bioequivalency studies on 11 nitrosamines can impact the bioequivalency of the ¹² valsartan plus amlodipine, they do it in drugs? 13 comparison to Exforge? 13 A. Well, the -- the process that I 14 ¹⁴ went through was not starting with that. I first A. Correct. 15 ¹⁵ had to go through the metabolic pathways of these And line 562, you are now O. various components and then look at the ¹⁶ discussing Aurobindo's ANDA 206512, and within ¹⁷ that, their Study No. 368-12 and 369-12. And you bioequivalence studies and then draw my conclusion ¹⁸ note that these were done in October of 2013, at the end of that, not on the front end of that. 19 correct? 19 And you think that studies done 20 without nitrosamines can tell you if nitrosamines Correct. A. 21 And you don't recall the date of are going to impact the bioequivalency? Q. ²² manufacture of the generic pills that were being 22 MR. FOWLER: Objection: Form, tested, do you? 23 mischaracterizes. 24 A. No. Again, they would have been THE WITNESS: Again, I think in 25 ²⁵ within some, usually few months time frame, but I answering that previously, I -- I said Page 67 Page 69 ¹ don't know. that not in and of themselves. You have 2 Q. Okay. So is it your opinion that to look at the whole picture. And part ³ Aurobindo's valsartan was contaminated with 3 of the whole picture is valsartan's ⁴ nitrosamines prior to October of 2013? bioequivalence is retained in the 5 A. It is my testimony that I do not presence of other compounds, that I had 6 ⁶ know, but that it may have had. And that if it to see the data for, before I could draw ⁷ did, it didn't alter the bioequivalence anyway. 7 that conclusion. 8 8 And if it -- if that -- scratch And then also understanding that 9 9 some of these probably had nitrates in that. 10 10 And if Aurobindo's valsartan was them, even as far back as -- as when ¹¹ not contaminated with nitrosamines during this 11 these bioequivalence studies were done. 12 time, then these bioequivalency studies don't tell 12 BY MR. VAUGHN: 13 you anything as to if nitrosamines will impact the Q. You just testified that you have ¹⁴ bioequivalency of valsartan plus amlodipine, to look at the whole picture. What do you mean by 15 correct? "the whole picture"? 16 16 A. Look at all the compounds Well, no, not necessarily ¹⁷ correct. Because, again, in microgram quantities, involved, their metabolic pathways, the ¹⁸ without any overlapping mechanism for an bioequivalence studies. 19 ¹⁹ interaction, there's no reason to expect that All of the bioequivalency ²⁰ there would be any impact at all. 20 studies? Q. But if this study is testing A. All that I received, which supported my contention and the -- all of the ²² pills without any nitrosamines in it, how does ²³ that add anything? How does that support your metabolic pathways of all the compounds involved. ²⁴ opinion that the nitrosamines aren't going to Q. If there were other

²⁵ impact the bioequivalency?

²⁵ bioequivalency studies that you did not receive,

¹ you wouldn't have the whole picture, would you?

A. I wouldn't have any more ³ information than what I've already put in my ⁴ report, but I think there's adequate information ⁵ in my report to make my conclusions.

Q. If there were bioequivalency studies that -- scratch that.

If some of the generic ⁹ manufacturers conducted bioequivalency studies on ¹⁰ their valsartan and they failed the bioequivalency 11 studies, you would then ex- -- you would have ¹² expected the Defense attorneys would have given

you that information, correct? 14 And they did.

15

25

21

Q. How do you know they did?

16 I saw one bioequivalence study Α. that the average AUC value and the average Cmax ¹⁸ value, you know, the two primary determinates of rate and extent of absorption, were within the

²⁰ FDA's requirements, but the confidence limits exceeded the requirements. 22

What do you mean by "exceeded"?

23 So I did see a study --A.

24 Sorry, continue. Q.

> A. So I did see -- I did see a study

I seem to recall that they were ² using the same API. It was more the tableting

Page 72

Page 73

process that needed to be revised. Q. Was it the size of the granules

⁵ of the valsartan API that was causing the

bioequivalency studies to fail?

A. No. It was the size of the particles that are used as part of the tableting process. So, yes, valsartan was in that particle,

and I don't know whether there was NDMA in there

11 or not. But based on the internal report for that

company, it had nothing to do with the API; it was the tableting process.

14 What are you basing that on, the -- it's the tableting process and not the API?

16 Their own internal root cause analysis.

18 But you can't point me to which Defendant you're discussing or the document that you're relying on?

21 A. I could. It might take me two or three hours to sift through the files.

23 That's okay. I think we'll 24 probably get to it later. 25

MR. VAUGHN: Let's go to page 36,

Page 71

¹ that failed the FDA's bioequivalence standards and

² the company did a root cause analysis -- I don't

³ remember which one it was right now -- and found

⁴ that it was a -- a change in the size of the

⁵ microparticles when they did the tableting, and so

⁶ they went back and reformulated the tablet and

⁷ redid a bioequivalence study -- and its one of the

⁸ ones that's in here -- that then met the FDA

standards after the reformulation.

You don't recall what company 11 that is?

12 I don't. I'd have to go back and look through all those files again.

14 Do you know what -- if they're Q. 15 API?

Again, I -- I don't know off the A. top of my head whether they made their own or whether they purchased it.

19 You don't know if they were getting their API from ZHP?

> I don't, off the top of my head. A.

22 Q. And do you happen to know if ²³ wherever they were getting their API from sent ²⁴ them the same API later on that they passed their

²⁵ bioequivalency study with?

Melisha, and start on line 586.

² BY MR. VAUGHN:

All right. We're talking about ⁴ Torrent's ANDA 202377. And so this would, again,

⁵ be the valsartan plus amlodipine, correct?

A. Yes.

Q. And the bioequivalency studies

within this ANDA is PK-09-192, PK-09-193 and

⁹ PK-10-023, and you note that these were conducted

¹⁰ between May and July of 2010, correct?

A. Yes.

12 Is it your opinion that Torrent's valsartan was contaminated with nitrosamines in

May of 2010?

11

15 A. Again, it may have been. I -- I do not know.

Q. And so, again, if Torrent's valsartan was not contaminated with nitrosamines

in 2010, then these studies don't actually tell

you anything specifically on if nitrosamines ²¹ impact the bioequivalency of valsartan plus

amlodipine, correct?

Again, not in and of itself, ²⁴ but -- but if it did contain it, then it does tell

25 you that.

Page 74 Page 76 1 But you have no idea if Torrent's only capable of being different because ² valsartan was contaminated back in 2010 with of a function of being fed or not. ³ nitrosamines, do you? ³ BY MR. VAUGHN: MR. FOWLER: Asked and answered. Q. Do you -- in relation to THE WITNESS: I -- I do not know. valsartan, do you have an opinion if fasting or ⁶ BY MR. VAUGHN: fed bioequivalency studies are harder to pass? A. I have no opinion that they're Q. Do you know what the purpose was ⁸ of them doing two fasting studies at different any harder to pass. MR. VAUGHN: All right. Page 37. milligrams? 10 A. I -- I don't. I don't recall BY MR. VAUGHN: ¹¹ seeing why that selection was made. Again, I know Q. All right. In the Comparison part now is Diovan HCT. Is HCT the same as HCTZ? 12 they're required by the FDA to do the highest ¹³ dose. I don't know why they chose the 160 in A. Yes. Novartis, in their branded ¹⁴ addition, so I -- I really don't know. I name, they don't use all four letters. They just ¹⁵ certainly don't recall seeing in the documents I use three of them. Whereas in the generic ¹⁶ had access to, that it was explained. pharmacology vernacular, we always use the four Q. Is there any reason why on the letters of HCTZ. ¹⁸ fed study the bioequivalency range is on the low 18 Q. Okay. And so this section is now end and on the fasting studies it's on the high on the combination of valsartan plus HCTZ pills, 20 end? correct? 21 21 MR. FOWLER: Objection to form. A. Correct. 22 22 THE WITNESS: I do believe that O. And this is Aurobindo ANDA 202519 23 it's been reported that there's a small 23 that you're discussing in this paragraph, correct? 24 reduction in systemic exposure to A. 25 25 valsartan when taken with food compared Q. And the studies within that ANDA Page 75 Page 77 1 ¹ are 304-09 and 305-09. And you note that those to not being taken with food. But then 2 it's in the package label that ² were conducted -- well, actually, you don't know 3 what year those were conducted, do you? the -- that small reduction is of -- not 4 A. Yeah, I don't know why I didn't of any clinical significance. And so 5 patients in the package labels are ⁵ put that in there. I tried to be consistent 6 ⁶ in -- in including the actual dates. And so I instructed that they can take it with or 7 ⁷ don't know if I received only a summary report without food and it won't alter the 8 that didn't have them. ultimate response to the drug. BY MR. VAUGHN: What I could do, though, is go to That small reduction in systemic the FDA's website and put in the ANDA number, and you can get from the website the date that the FDA ¹¹ exposure to valsartan when taken with food, that approved the ANDA. So I did have that. should be the same for the brand name and the Q. Based on Aurobindo's naming generic, correct? 14 14 structure of their studies, does that -09 indicate A. Yes. 15 anything to you? Then why is the generic low on the fed studies but high on the fasting studies? A. I can't say that I paid attention 17 to whether that was a 09, like 2009 study or not, MR. FOWLER: Objection, form. 18 THE WITNESS: I don't think it's so I don't know for sure. It may have been the 19 ninth production product or -- you know, I have no only because of whether it's fed or not 2.0 20 fed. I think tablet performance, if you idea. 21 21 go back and look through some of these, Q. Or a 2009 manufacturing date of 22 some manufacturers, even in a fasting 22 the product? 23 23 state, their AUCs are a little higher Could have been. A. 24 24 than Diovan and some are a little lower Well, let's just assume, then, 25 25 that this was done in 2010. If this was done in than Diovan. So it -- it's not purely

¹ 2010, do you have an opinion as to if Aurobindo's

- ² valsartan was contaminated with nitrosamines?
 - A. I don't know. It may have.
- ⁴ Q. And if the ANDA wasn't approved ⁵ until March of 2013, the studies were definitely ⁶ done in advance of that, correct?
- A. They were definitely done in
 advance of 2013, yes. For sure.
- ⁹ Q. And the manufacturing date of the ¹⁰ valsartan would have been even earlier than the ¹¹ bioequivalency studies, correct?
- A. By some, usually, a few months time frame.
- Q. And so you're unaware if the product tested in these bioequivalency studies was contaminated with nitrosamines, correct?

 MR. FOWLER: Asked and answered.

 THE WITNESS: Correct, I'm

unaware of that. They may have been.

²⁰ BY MR. VAUGHN:

Q. And if Aurobindo's valsartan was not contaminated with nitrosamines at the time that these studies were being conducted, these bioequivalency studies don't actually tell you anything on if nitrosamines impact the

¹ the bioequivalence. And -- and if I recall from

- ² having read one of Plaintiff expert's depositions,
- ³ Dr. Najafi, I believe, I think he said the same
- ⁴ thing. It didn't matter whether it was in there
- ⁵ or not; it wouldn't have affected the
- ⁶ bioequivalence.
 - Q. If there are bioequivalency
- 8 studies that were conducted on valsartan that was
- ⁹ known to be contaminated, would you want to review
- 10 those studies?
- A. Of course if I had them, I would review them.
- Q. Would you give more weight to the tudies that had no nitrosamines impurities in them versus ones that did have nitrosamines impurities in them?
- A. No, because they're not going to show any difference, so it wouldn't have any difference to me at all. Wouldn't change my conclusion, it would only support my conclusion.
- Q. And so without looking at the studies, you can already determine that they're not going to show any difference?
- A. To the best of our scientific
 capability through mechanisms whereby there would

Page 81

Page 79

- ¹ bioequivalency of the valsartan plus HCTZ,
- ² correct?

19

- ³ A. And, again -- and the same if ⁴ they do.
- But without an overlapping mechanism, it doesn't matter whether it's in there or not.
- Q. And so none of these studies that
 we've looked at actually matter to you, do they,
 because you don't know if any of them have
 nitrosamines in the drug product?

MR. FOWLER: Objection to form.
THE WITNESS: No, that's not what

I said about them not mattering. I'm

I said about them not mattering. I'm saying whether NDMA was in there or not doesn't matter because the

bioequivalence would be retained.

¹⁸ BY MR. VAUGHN:

- Q. So in your expert opinion, it
 doesn't matter if the study is using a drug
 product with nitrosamines in order to figure out
 if nitrosamines impact the bioequivalency of the
 drug?
- A. It is my expert opinion that whether they were in there or not would not affect

¹ be an effect on bioequivalence, and those

² mechanisms do not exist.

3 MR. VAUGHN: All right. Go on to

page 38.

⁵ BY MR. VAUGHN:

- ⁶ Q. All right. And you're now
- ⁷ discussing at line 613 Princeton ANDA 206083. And
- ⁸ again, this is for valsartan plus HCTZ, correct,
- ⁹ Doctor?
- 10 A. Yes.
- Q. And within the ANDA you note
- 12 bioequivalency studies H052-12 and H053-12, and
- 13 you note that these were both done in 2012,
- ¹⁴ correct?
- 15 A. Yes.
- Q. And do you have any opinion on if
- Princeton's valsartan plus HCTZ was
- 18 contaminat- -- contaminated with nitrosamines in
- 19 2012?

22

- A. I don't personally know that.
- ²¹ They may have been.
 - Q. And if Princeton's valsartan was
- ²³ not contaminated with nitrosamines in 2012, these
- ²⁴ studies don't actually tell you if nitrosamines
- ²⁵ are going to impact the bioequivalency of

Page 21 (78 - 81)

Page 82 Page 84 ¹ Princeton's valsartan plus HCTZ, correct? ¹ Here's our bioequivalence result for Diovan/HCT A. Correct, in that -- in and of ² versus our equivalent product. ³ itself. But, again, with the presence of And so it -- I may have in some ⁴ milligram quantities compared to NDMA microgram 4 cases had a much more limited amount of ⁵ quantities, without overlapping mechanisms, it ⁵ information that came with the file that had the ⁶ BE data in it. ⁶ adds to the body of -- of my knowledge that ⁷ there's no reason to expect that NDMA would have Q. And so for some of the files, you ⁸ any effect on bioequivalence at all. were not able to review all the data, correct? Q. Okay. And in the paragraph A. I was able to review the relevant ¹⁰ starting at line 622, you are discussing ANDA 10 bioequivalence data, yes. ¹¹ 091654, which is for Torrent's valsartan plus 11 And the Mylan studies, that you ¹² HCTZ, correct? ¹² were discussing in this paragraph, you note were 13 conducted in May of 2005, correct? A. Yes. 14 14 Yes, I did have that information. And then you note Studies Q. 15 ¹⁵ PK-09-23 and PK-09-024, and you note that these Q. And did you have any information on if Mylan's valsartan plus HCTZ was contaminated ¹⁶ bioequivalency studies were conducted in March of ¹⁷ 2009, correct? with nitrosamines back in 2005? 18 18 A. Yes. A. I have no knowledge of that. It 19 may have been. And do you have any opinion if Q. 20 ²⁰ Torrent's generic valsartan plus HCTZ was Q. Your opinion today is that contaminated with nitrosamines back in 2009? ²¹ Mylan's valsartan might have been contaminated 22 going all the way back to 2005? I do not know. It may have been. 23 And if Torrent's valsartan plus 23 Do not know. And if Mylan's valsartan plus ²⁴ HCTZ was not contaminated with nitrosamines back O. ²⁵ in 2009, then these bioequivalency studies don't ²⁵ HCTZ was not contaminated back in 2005, then these Page 85 Page 83 ¹ actually tell you anything on if nitrosamines ¹ bioequivalency studies don't actually tell you ² impact the bioequivalency of valsartan plus HCTZ, ² anything on if nitrosamines impact the ³ correct? ³ bioequivalency of valsartan plus HCTZ, correct? A. Correct, to a certain degree. A. They indirectly do, as I -- as ⁵ But, again, without the overlapping mechanisms and ⁵ I've stated before, because milligram quantities ⁶ the fact that it may have had it in there, then ⁶ of HCTZ without an overlapping mechanism do not ⁷ alter valsartan. So there would be no reason to ⁷ I -- I don't think this is changing my conclusion 8 expect that microgram quantities of NDMA or NDEA, ⁸ at all. ⁹ without overlapping mechanisms, would have any MR. VAUGHN: Page 39. ¹⁰ BY MR. VAUGHN: effect on the bioequivalence. 11 11 Q. All right. Paragraph starting So I -- I don't change my ¹² line 626, you note Mylan data on bioequivalency conclusion at all. 13 studies comparing generic valsartan/HCTZ to Q. Does that meet FDA guidance, that just if there's not a known overlapping mechanism, ¹⁴ Diovan/HCT, but you don't reference an ANDA on ¹⁵ this one. that you don't need to do bioequivalency studies? 16 16 MR. FOWLER: Objection: Form, Is there a reason for that? 17 It was either not identified in foundation. Α. 18 ¹⁸ the files that I received or that I could not find THE WITNESS: The FDA requires 19 ¹⁹ it directly at the FDA website to put a specific the bioequivalence studies irrespective ²⁰ ANDA number in. 20 of whether they do or do not have 21 Q. What do you mean by "not 21 impurities in them.

22

23

BY MR. VAUGHN:

Q. If a drug has a different

chemical in it, even if it's an excipient, does

²⁵ the FDA require additional bioequivalency studies?

²⁴ files I received were very lengthy and very

As I said before, some of these

²⁵ comprehensive, and some of them I received were:

²² identified in the files" you received?

23

Page 88
Q. This then reference drug is,
² again, Exforge HCT? ³ A Yes So this is a a
71. Tes. Bo dins is a d
4 three-drug combination now. 5 O Does Exforce HCT have amlodining
Q. Boes Extorge Treat have almourpine
6 in it? 7 A Yes
71. 103.
Q. That is Extorge from what was also
⁹ being compared to on the generic valsartan plus
10 HCTZ but not amlodipine?
11 A. Valsartan plus amlodipine alone
would be equivalent to the Exforge. Valsartan
13 plus HCTZ would be equivalent to Diovan/HCT. And
14 then valsartan plus amlodipine plus
15 hydrochlorothiazide would be equivalent to the
¹⁶ Exforge HCT.
Q. Understood. Thank you for that
18 clarification.
And so that last paragraph on
²⁰ page 39, you are discussing Teva's ANDA 2004354,
²¹ valsartan plus amlodipine plus HCTZ, correct?
A. Yes.
Q. And I don't see that you
²⁴ identified the studies in this ANDA. Do you see
²⁵ if you did, Doctor?
7 Page 89
¹ A. I don't see a specific study
² number.
² number. ³ Q. Is there a reason for that?
 number. Q. Is there a reason for that? A. It it wouldn't have been an
 number. Q. Is there a reason for that? A. It it wouldn't have been an oversight on my part, so it must not have been
 number. Q. Is there a reason for that? A. It it wouldn't have been an oversight on my part, so it must not have been that the actual study number was provided in the
number. Q. Is there a reason for that? A. It it wouldn't have been an oversight on my part, so it must not have been that the actual study number was provided in the materials I was given to review or that I asked
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number. Q. Is there a reason for that? A. It it wouldn't have been an oversight on my part, so it must not have been that the actual study number was provided in the materials I was given to review or that I asked for to review. A. It it wouldn't have been an review or that I asked a for to review. A. It it wouldn't have been an oversight on my part, so it must not have been that the actual study number was provided in the A. It it wouldn't have been an oversight on my part, so it must not have been that the actual study number was provided in the A. It it wouldn't have been an oversight on my part, so it must not have been A. A. It it wouldn't have been an oversight on my part, so it must not have been A. A. It it wouldn't have been an oversight on my part, so it must not have been oversight
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number. Q. Is there a reason for that? A. It it wouldn't have been an oversight on my part, so it must not have been that the actual study number was provided in the materials I was given to review or that I asked for to review. Q. And if the Defendants had that information, you would have expected that they would have given it to you, correct? A. Yes. I'm sure they had it, and it wasn't in the materials that I received. Q. You were sure that the Defense attorneys had it, but they did not give it to you? MR. FOWLER: Objection, form. He didn't say that. THE WITNESS: Yeah, what what I meant to to mean is that the file that came through Defense lawyers to me
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number. Q. Is there a reason for that? A. It it wouldn't have been an oversight on my part, so it must not have been that the actual study number was provided in the materials I was given to review or that I asked for to review. Q. And if the Defendants had that information, you would have expected that they would have given it to you, correct? A. Yes. I'm sure they had it, and it wasn't in the materials that I received. Q. You were sure that the Defense attorneys had it, but they did not give it to you? MR. FOWLER: Objection, form. He didn't say that. THE WITNESS: Yeah, what what I meant to to mean is that the file that came through Defense lawyers to me from Teva, Teva must not have provided it in what was sent to them to give to

Page 90 1 Q. And these studies done in Teva's I'm even under the impression ² ANDA 200435, they were conducted in 2009, correct? ² that some of the Diovan may have had nitrosamines Yes, I did have that information. ³ in them as well. Again, I don't think it alters 4 ⁴ my conclusion at all because it would have no Q. And do you have an opinion on if ⁵ Teva's valsartan was contaminated with ⁵ impact on the bioequivalence studies. 6 nitrosamines back in 2009? Q. Did the Defense attorneys tell you to assume that some of the generic valsartan I don't know if it was or not. 8 Q. that was studied in these bioequivalency studies And therefore, if it was not ⁹ contaminated with nitrosamines back in 2009, these were contaminated with nitrosamines? ¹⁰ studies don't tell us anything on if nitrosamines 10 Defense attorneys did not tell me ¹¹ impact the bioequivalency of Teva's valsartan plus to assume anything. They have access to amlodipine plus HCTZ, correct? information through other depositions and things 13 13 that I'm not aware of, but they did tell me that A. Incorrect. Again, this is ¹⁴ an -- an even more extreme example of making my there was the likelihood that some of these ¹⁵ point. You now have three drugs in milligram generics contained NDMA even before ZHP identified ¹⁶ quantities that don't have overlapping mechanisms 16 that it had NDMA. of metabolism that show no altered bioequivalence. 17 How far back did the Defense 18 Q. And it's your opinion that that ¹⁸ attorneys tell you that the contamination likely supports that nitrosamines can't alter the 19 goes? 20 bioequivalency of these drugs? 20 I was not given a time frame. I A. 21 A. The absence of an overlapping 21 do not know that. 22 mechanism of metabolism or distribution, And so when you testify -absolutely, I believe that. 23 I think it was --24 Q. Did you discuss any other Q. Sorry, go ahead. ²⁵ bioequivalency studies in your expert report, 25 A. Yeah. I think I was going to say Page 93 Page 91 ¹ other than the ones that we have covered? ¹ that, again, in -- in reading Dr. Najafi's A. I'm assuming you went through ² deposition, I think he was the one that concluded ³ every one that -- I haven't going back to -- to do ³ or -- or stated that even Diovan had some NDMA in ⁴ a head count, but I'm assuming it's every one. So ⁴ it. And so I'm saying it doesn't matter. The ⁵ I have no additional ones that I had access to. ⁵ bioequivalence, and therefore the systemic ⁶ exposure, and therefore the systemic effect of O. And all of the ones that we ⁷ reviewed, none of them were you aware if ⁷ generic valsartan products are completely nitrosamines were in the drug product, correct? independent of whether there is or isn't NDMA in 9 MR. FOWLER: Asked and answered. there or whether it was in the branded products or 10 10 THE WITNESS: I don't believe not. 11 11 that I -- I don't know, but I'm under Earlier you testified that you

12 the impression that some of them did. Which ones are you under the impression had nitrosamines in them when they were

13 BY MR. VAUGHN: 14 conducting the bioequivalency studies? 17 MR. FOWLER: Objection, asked and 18 answered. 19 THE WITNESS: I -- I don't know 20 which ones, but I'm under the impression 21 that some did. 22 BY MR. VAUGHN: 23 Do the --

were under the impression they had nitrosamines in them when they were [sic] conducted the bioequivalency studies. How are you under that impression? 16 MR. FOWLER: Objection: Form, 17 vague. 18 THE WITNESS: Again, I'm -- I'm 19 under the impression from discussions 20 I've had with counsel that there were 21 some generic manufacturers that have 22 identified that they might have had NDMA 23 even at the time that some of these bioequivalence studies were conducted.

25 BY MR. VAUGHN:

I'm even under the

A.

²⁵ impression -- I'm sorry.

Page 94 Page 96 1 ¹ a citation down to the Final Rule: "Requirements O. Did you refute --2 A. And it --² for submission of bioequivalence data that was 3 ³ published in the Federal Register on January 16th, Q. Sorry. 4 -- doesn't matter. No. I was A. 2009," correct? ⁵ just going to say it doesn't matter, because it's A. Correct. ⁶ not going to have any effect on the bioequivalence And do you agree that an ANDA Q. applicant should submit all of their ⁷ anyway. Q. Did you review any documents that bioequivalency studies, even studies which failed? 9 ⁹ indicated that any of the drug products tested in MR. FOWLER: Objection: Calling 10 these bioequivalency studies were actually for a regulatory opinion, outside the 11 ¹¹ contaminated with nitrosamines? scope. 12 12 A. I have -- I have seen no such THE WITNESS: I can sit here and 13 13 read that the same as you can, but, documents, no. 14 14 again, I -- I don't have opinions MR. VAUGHN: Why don't we go off 15 15 on -- on regulatory issues. the record. 16 THE VIDEOGRAPHER: The time is 16 BY MR. VAUGHN: 17 17 now 11:53 a.m. We are off the record. And so you also don't have an 18 (Lunch recess observed.) opinion on if they're supposed to submit failed 19 bioequivalency studies that happened after the THE VIDEOGRAPHER: The time is 20 12:38 p.m. We're back on the record. submission of their ANDA? 21 21 BY MR. VAUGHN: MR. FOWLER: Same objection. 22 22 THE WITNESS: Yeah. Again, I O. Welcome back, Dr. Bottorff. 23 MR. VAUGHN: Melisha, can we pull 23 have no opinion on that. 24 up the 2011 FDA Guidance for Submission 24 MR. VAUGHN: All right. Melisha, 25 of Summary Bioequivalence Data for 25 let's go to the -- the FDA's 2021 Draft Page 95 Page 97 1 ANDAs? Guidance now. 2 2 And this will be Exhibit 4. And this will be Exhibit 5. 3 (Exhibit 4 was marked.) (Exhibit 5 was marked.) ⁴ BY MR. VAUGHN: BY MR. VAUGHN: Q. All right. Have you reviewed Q. Doctor, is this the 2021 Guidance ⁶ this document previously, Dr. Bottorff? that you were referencing earlier in this A. Yes, I have. deposition? 8 MR. VAUGHN: Melisha, can we go A. Yes. It's the one that I said 9 to PDF page 4? It's page 1 at the I'd also seen. It existed in a -- in a draft bottom of the document. format. 11 ¹¹ BY MR. VAUGHN: MR. VAUGHN: Go to PDF page 8, 12 12 Q. All right. I'm looking at line Melisha. It's going to be page 5 at the 13 bottom. And it might be PDF page 9. 13 19. Actually, it starts on line 18. Do you see, ¹⁴ Doctor, where it says: "FDA's final rule on 14 MR. FOWLER: So let me just have ¹⁵ requirements for submission of bioequivalence data 15 a running objection to the relevance of ¹⁶ requires an ANDA applicant to submit data from all 16 this 2021 Guidance to this case, so I 17 ¹⁷ bioequivalence studies the applicant conducts on a don't interrupt you. 18 BY MR. VAUGHN: ¹⁸ drug product formulation submitted for approval, 19 ¹⁹ including studies that do not demonstrate that the All right. Doctor, on line 147 generic product meets the current bioequivalence where it says: "If a drug product is intended for 21 stamp criteria"? ²¹ use in both sexes, the applicant should include 22 ²² similar proportions of males and females in the A. I see that. 23 ²³ study or provide a justification supporting the And at the top of this document, ²⁴ it does say that the document contains nonbinding ²⁴ use of a single-sex population." ²⁵ recommendations, but the sentence I just read has 25 Why is that?

MR. FOWLER: Objection, calls for a regulatory opinion.

Go ahead, to the extent you can answer.

THE WITNESS: Yeah, I -- I don't know why, but I know it's done. On my CV, I don't know if it was noted or not, but I've been added to a National Investigational Review Board for a company called Advarra. And we review Phase 1 protocols on a weekly basis from a variety of pharmaceutical companies, and I can tell you that the vast majority of them have about an equal number of males and females.

Provided, there's all kinds of stipulations about making sure that it's females either of nonchild-bearing potential or who have some of the -- the highest level of -- of pregnancy prevention techniques in place.

²² BY MR. VAUGHN:

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23 Q. And designing a bioequivalency study like this with -- using both sexes, is that ²⁵ something that's new as of 2021, or does that date I'm not sure. I -- I really

² don't know. Maybe to broaden the populations of people that get exposed to the early phases of

drug development.

In a drug like valsartan, it is given to both males and females, correct?

A. Well, if the females aren't pregnant. There's a Black Box Warning: Do not give it to pregnant females.

Q. And so is that one reason that you'd want to have both sexes in your studies, is so you understand how it works in both males and females?

MR. FOWLER: Form.

THE WITNESS: Again, I don't know what led to a change, and I don't know when the change occurred.

BY MR. VAUGHN:

19 Q. Line 153, it notes: "If a drug product is prom- -- predominantly intended for the use in the elderly, the applicant should include as many subjects as possible at or above age 60." 23

Do you know why that's ²⁴ recommended?

> A. I'm assuming for what it actually

> > Page 101

Page 99

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¹ back before 2021?

A. I, again, can't tell you when ³ that started, but I know it's being practiced as ⁴ of today. Since I've been on that IRB, I've seen ⁵ numerous trials come through that are practicing ⁶ this standard.

Q. And you testified that you've ⁸ done bioequivalency studies dating all the way back to college, correct?

A. Yes.

11 And in those bioequivalency ¹² studies, was there a fairly equal number of males and females in the studies?

14 There were not. And that was, ¹⁵ like, 1982-1983. So it was a fair number of years ago.

17 And do you have any idea when ¹⁸ that started to change, that they were recommending to use equal numbers of male and females in the study? 21

MR. FOWLER: Asked and answered. 22 THE WITNESS: I -- I do not.

BY MR. VAUGHN:

Q. And you do not know why that's ²⁵ recommended?

¹ says in that sentence, if it's predominantly

² intended to be used in the elderly.

Q. Do elderly metabolize drugs ⁴ differently than young people?

Again, much like the previous ⁶ question about cirrhosis, it's -- it's not a ⁷ given. There are many, many studies that I've

⁸ seen over the years of my career where the

⁹ pharmacokinetics, and therefore the bioequivalence ¹⁰ of a drug, were not altered just by being older.

11 It's more likely the pharmacodynamics that change,

¹² sensitivity to the heart rate adjustments

13 or -- it's more the pharmacodynamic end points

¹⁴ that change with -- with aging, not so much the

pharmacokinetic end point. Sometimes. Sometimes ¹⁶ it does. It's not a blanket statement

¹⁷ that -- that fits all.

O. So it sometimes does.

19 Would that be a reason you'd want to actually test it in the population the drug is being given to? 22

A. Well, I mean, that's one reason.

23 0. Can you give me additional

24 reasons? 25

18

Well, maybe, like I said, because

Page 102 Page 104 ¹ they're sensitive, and so you might want to do ¹ BY MR. VAUGHN: ² studies with lower doses, if you didn't do Q. And you see the next line, it ³ bioequivalence studies with lower doses before. ³ says: "Investigational New Drug Application may ⁴ be required for certain products (such as Q. In your opinion, what's the average age of a valsartan user? ⁵ cytotoxic products.)" And then it cites to 21 CFR ⁶ 312.2(c). MR. FOWLER: Objection: Form 7 Do you see that, Doctor? speculation. 8 8 THE WITNESS: I -- I could not A. Yes. 9 Were you aware of that? even come close to what the right answer Q. 10 would be, but I can tell you when you 10 A. Well, I've previously read this, 11 look at the FDA-approved indications for but -- so, yes, I was aware of it. 12 12 hypertension, heart failure and What is an Investigational New Q. 13 13 postmyocardial infarction, those are not Drug Application? 14 14 going to be 18-year-olds, 20-year-olds, That's for a drug that's never 15 25-year-olds. They're going to be 50-, been given to humans, and so you're looking to get 16 approval to start testing in humans. 60-, 70-year-olds. 17 17 Is valsartan cytotoxic? BY MR. VAUGHN: Q. 18 18 Q. And then looking at line 169, it A. No. 19 reads: "In such situations, applicant should Is NDMA cytotoxic? Q. attempt to enroll patients for whom the drug is 20 MR. FOWLER: Form. ²¹ intended to treat and whose disease process and 21 THE WITNESS: I -- I don't 22 ²² treatments are stable for the duration of the believe so, in what the definition of 23 23 study." cytotoxic is, to my recollection. I 24 24 think of cytotoxic as either antibiotics Do you see that, Doctor? 25 25 Yes. that are cytotoxic to an organism or A. Page 105 Page 103 1 Q. Do you agree with that statement? cancer drugs that are cytotoxic to 2 Well, not in isolation without cancer cells. A. ³ the sentence before it. Because in some BY MR. VAUGHN: ⁴ situations, the drug has a safety consideration Q. What is your definition of ⁵ that would preclude its use in healthy subjects. cytotoxicity? ⁶ So I'm thinking -- what jumps out at me at that A. It's a drug that kills cells. ⁷ And we're talking here about active ingredient, so point are new cancer drugs. 8 ⁸ it's an active ingredient whose intent for use is Q. Would --A. You would only want to test those cytotoxicity. 10 10 in patients with stable cancer. MR. VAUGHN: All right. If we 11 11 Thank you for that clarification. can go to page 22 at the bottom, 12 Now, when it applies to 12 Melisha. I'm not sure what PDF page it valsartan, would there be any reason why it should 13 is. not be tested in the patient population it's BY MR. VAUGHN: 15 intended to treat? All right. I'm looking at the 16 MR. FOWLER: Objection: Form, ¹⁶ line 846, Handling of Outliers. Doctor, you see 17 this first sentence says: "Applicant should not mischaracterizing. remove data from the statistical analysis of 18 THE WITNESS: And I -- I don't 19 ¹⁹ bioequivalency studies solely because that data think -- again, I think this starts 2.0 are identified as statistical outliers." getting into a realm of -- of 21 21 regulatory, but I don't think the Do you agree with that statement? 22 22 companies who did bioequivalence testing Well, yes, it's in the FDA A. 23 in younger, healthy, normal volunteers document. 24 was anything other than what the FDA Q. And you agree that a manufacturer 25 ²⁵ shouldn't remove statistical outliers even before expected to see.

Page 106

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Page 109

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<sup>1</sup> 2021, right?
                Again, the way in which the data
<sup>3</sup> are handled can vary. Some of this is relating to
<sup>4</sup> the fact that some patients or subjects will later
<sup>5</sup> to [sic] be found to have some reason for it, and
<sup>6</sup> some of that could be biologic. I mean, I don't
<sup>7</sup> know the details behind it. Starts getting into a
<sup>8</sup> statistical handling of the data.
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That's not really what I -- what ¹⁰ I've done.

11 O. You have not done a statistical ¹² handling of the data of any of these bioequivalency studies?

14 The kind that are down below in ¹⁵ 870, I have, but not removal of outliers, I've 16

17 Q. Did you notice in any of the ¹⁸ bioequivalency studies that you reviewed that the manufacturer removed outliers?

20 Never saw any reference to that A. 21 at all.

22 Q. Then going to line 854, it notes ²³ that: "Data from redosing studies are not ²⁴ considered as evidence to support removal of ²⁵ outlier data from the statistical analysis. Note ¹ what I had in relation to these document requests, ² and I either provided answers or what was ³ requested. Approximately how many documents

⁵ did you send to GT in relation to this document request? MR. FOWLER: Objection: Form,

vague, time frame. THE WITNESS: Well, I mean, if you want to go through one-by-one.... But in No. 1, I did not send invoices because they had them already.

13 BY MR. VAUGHN:

14 Q. Oh, Doctor, I just mean in total, 15 if that helps you. Just cuts the time up. 16

MR. VAUGHN: What's your objection?

MR. FOWLER: You said -- you mean in total. You mean a total of documents in re- -- sent in response to all 15 requests? I don't understand --

MR. VAUGHN: Yeah, that's exactly what I'm asking. Yeah. Out of all the documents requested --

MR. FOWLER: As opposed to

Page 107

counting?

MR. VAUGHN: -- in this document, I asked him approximately, how many he sent to GT.

THE WITNESS: I'm running down to see. I have my recollection in my head, but I wanted to look at each of the points to make sure that I didn't miss something. But the only thing that I had that I could give were the notes that I was under the impression were sent to you.

I had no PowerPoints. I had no tables and charts. I had no books. Any of the other things that were requested here, I didn't have any- -- anything to provide.

18 BY MR. VAUGHN:

19 Your notes were produced to us. ²⁰ I do appreciate you getting those to the Defense attorneys. And it was both the notes for the general causation expert report you did and the class action expert report you did. Had you previously given GT's ²⁵ Defense attorneys your notes for the general

¹ that all subject data should be submitted and ² potential outliers flagged with appropriate ³ documentation as part of the submission."

And you agree with that as well, ⁵ correct, Doctor?

Α. Yes, it's -- it's in their document.

8 MR. VAUGHN: Let's pull up the 9 depo notice, Melisha.

10 It's going to be Exhibit 6. 11

(Exhibit 6 was marked.)

BY MR. VAUGHN:

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Q. Have you seen this document before, Dr. Bottorff?

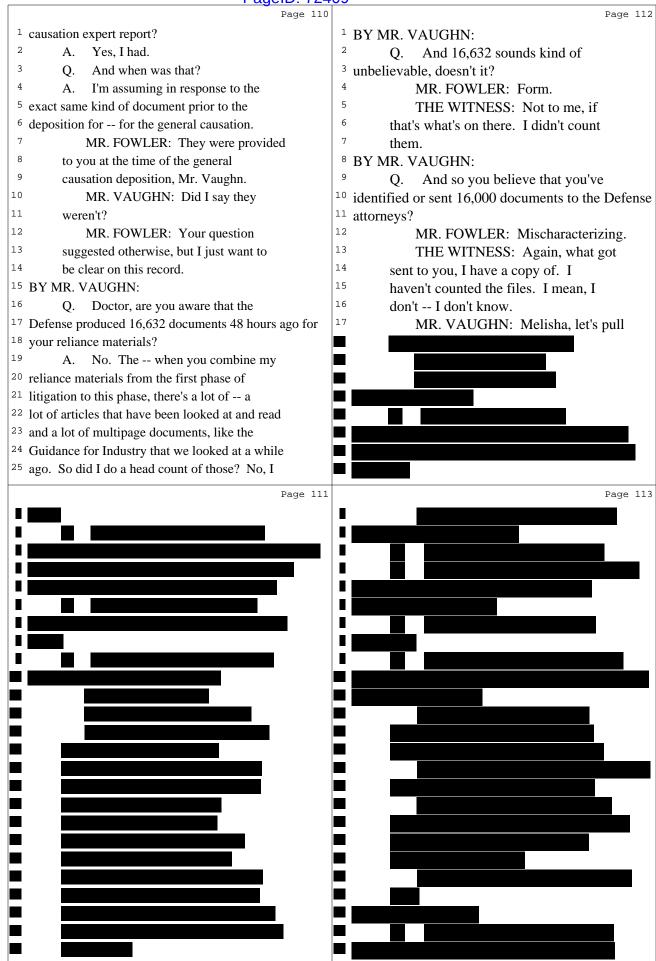
Yes, I have seen it.

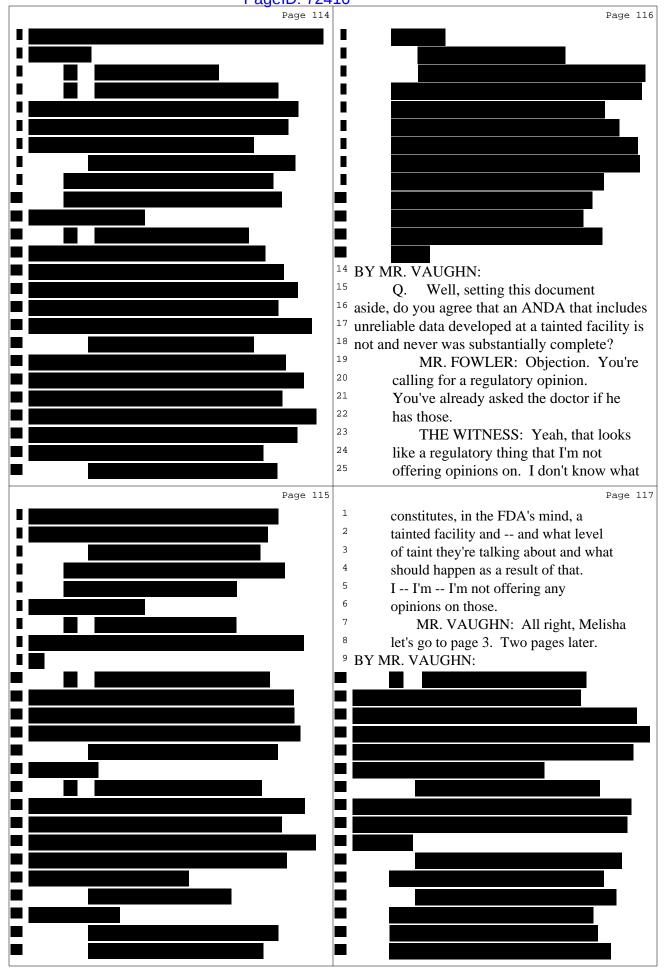
16 When was this document given to Q. 17 you?

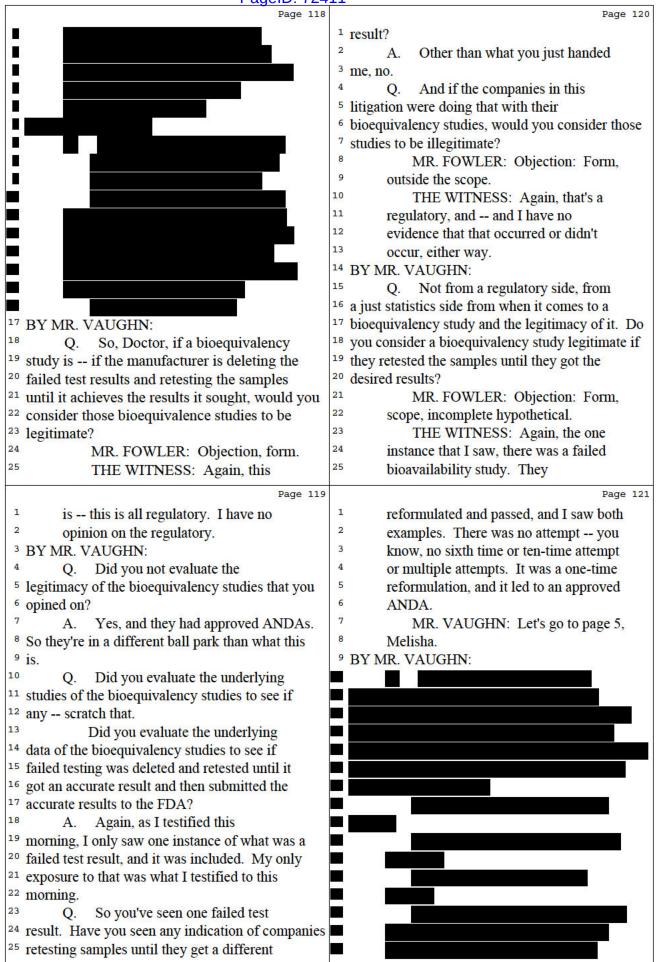
18 I believe it was forwarded the ¹⁹ day -- well, I don't know in relation to when it was received by -- by GT, but I received it in an ²¹ e-mail probably earlier this week.

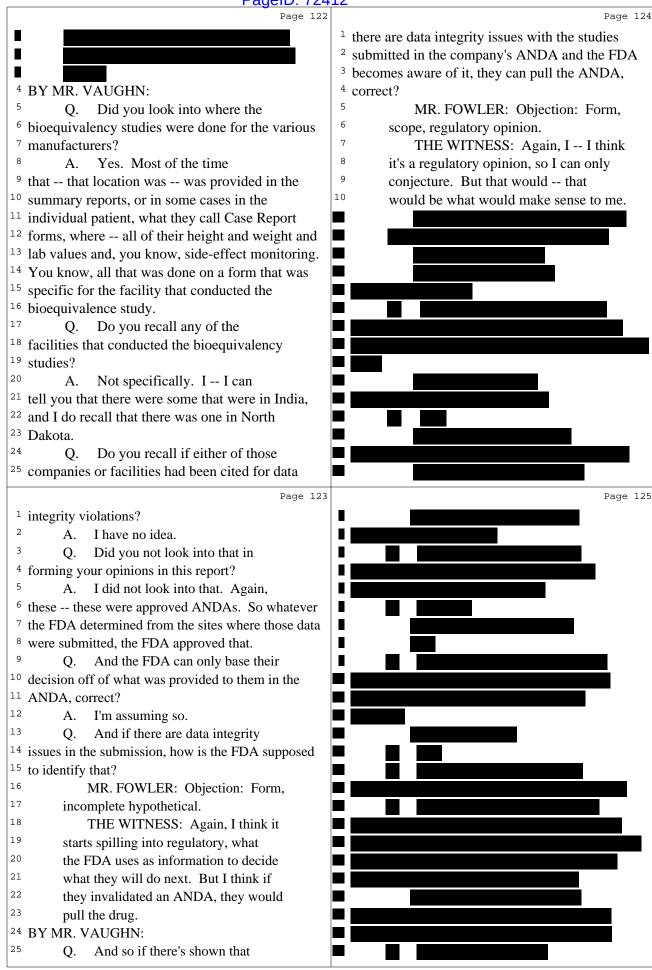
22 And did you help GT in responding to this document request?

A. We went through it line-by-line ²⁵ or -- or paragraph-by-paragraph, and I was asked









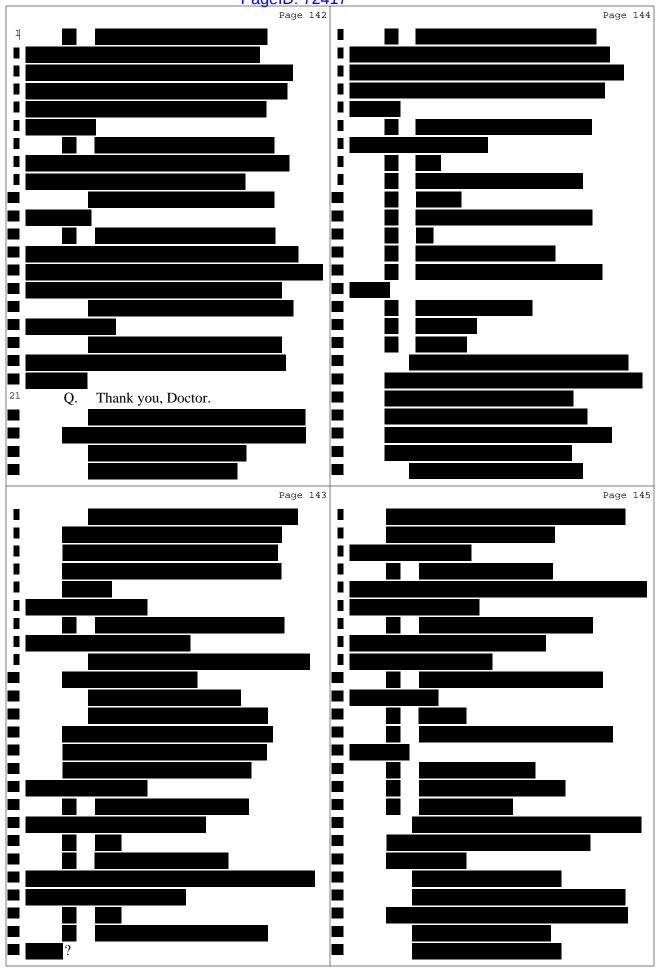
Case 1:18/11/192875:18MB-5AKor Ragument 2084:10-j Eiled 96/02/220t 8899 34-01/14er PagelD: 72413









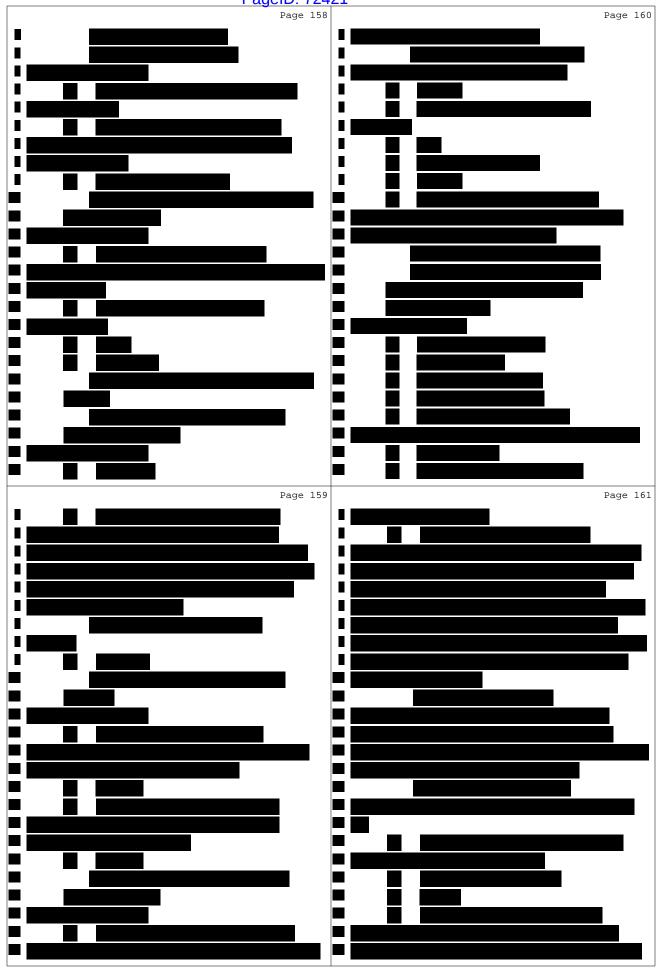




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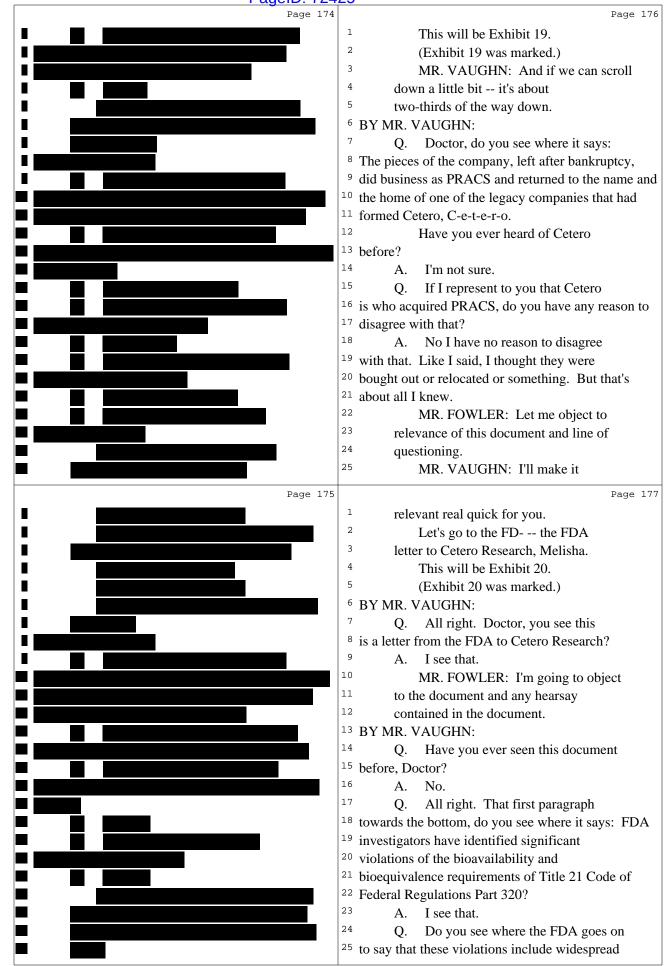


Case 1:18/11/192875:18MB-5AKor Ragument 2084:10-j Eiled 96/02/220t 8899 140/01/16er PagelD: 72423



Case 1:13-nmd-02375-FMB-5AKor-nagumant 2084-76-j-Eiled 06:02/22-o-t-Eage 1:0-1/14-e-r
PageID: 72424





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Page 178
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 <sup>1</sup> falsification of dates and times in laboratory
                                                                    the bottom.
 <sup>2</sup> records and subject sample extractions and the
                                                           <sup>2</sup> BY MR. VAUGHN:
 <sup>3</sup> apparent manipulation of equilibrium samples to
                                                                    Q. Do you see where the FDA says
 <sup>4</sup> meet predetermined accepted criteria?
                                                           <sup>4</sup> that this calls into question the validity of all
              MR. FOWLER: Objection: Hearsay,
                                                           <sup>5</sup> of the information documented on your AP sheets
 6
         relevance to anything we're talking
                                                           <sup>6</sup> including study results that were used as a basis
 7
                                                             for NDAs and ANDAs submitted to the FDA?
         about here.
 8
              THE WITNESS: Yeah, I see that.
                                                                        MR. FOWLER: Form, relevance,
 9
                                                           9
              MR. VAUGHN: All right. Let's go
                                                                   hearsay.
                                                          10
10
         to the next page, Melisha. All right.
                                                                        THE WITNESS: I mean, yes, I see
                                                          11
11
         Second paragraph, the last sentence.
                                                                    that.
                                                          12
12 BY MR. VAUGHN:
                                                                        MR. VAUGHN: And let's go to the
                                                          13
13
         Q. Do you see where the FDA says:
                                                                    next page, Melisha.
<sup>14</sup> "The Complainant was aware that many of the
                                                          14 BY MR. VAUGHN:
                                                          15
<sup>15</sup> chemists were manipulating and falsifying data
                                                                    Q. And under the heading
<sup>16</sup> associated with the samples being used within
                                                             Manipulation of Samples, do you see where it says:
   various projects"?
                                                             "FDA has determined that your firm manipulated
18
                                                             test samples in order to meet predetermined
              MR. FOWLER: Hearsay. A double
19
                                                             acceptance criteria"?
         layer of hearsay.
20
                                                          20
                                                                        MR. FOWLER: Form, lack of
              THE WITNESS: I see that.
21
                                                          21
              MR. VAUGHN: Let's go to page 5,
                                                                    foundation, facts not in evidence,
                                                          22
22
         Melisha.
                                                                    relevance.
                                                          23
  BY MR. VAUGHN:
                                                                        THE WITNESS: I see that.
         Q. All right. That first paragraph
                                                          24
                                                                        MR. VAUGHN: And let's go to
<sup>25</sup> under No. 2, do you see where they are -- the FDA
                                                                    page 10, Melisha.
                                                                                                           Page 181
                                                Page 179
 <sup>1</sup> notes that there were frequent alterations in
                                                           <sup>1</sup> BY MR. VAUGHN:
 <sup>2</sup> laboratory records that occurred over a four-year
                                                                         And do you see where the FDA, on
 <sup>3</sup> period from April 1st, 2005 through June 15th,
                                                           <sup>3</sup> the second paragraph, notes they have significant
                                                           <sup>4</sup> concerns of all data relevant to FDA-regulated
 4 2009?
 5
             MR. FOWLER: Objection: Facts
                                                           5 research?
 6
                                                           6
         not in evidence, hearsay.
                                                                    A.
                                                                         At the Houston facility, yes.
                                                           7
             THE WITNESS: I see it.
                                                                    Q.
                                                           8
                                                                         My recollection is we talked
 <sup>8</sup> BY MR. VAUGHN:
                                                                    A.
         Q. And do you recall the previous
                                                             about Minneapolis and North Dakota, not Houston.
<sup>10</sup> bioequivalency studies that we looked at from
                                                                         So it's your opinion that just
11 Mylan were within this date range?
                                                             the Houston office was manipulating data for this
12
                                                          12
              They were within that date range.
                                                             company?
                                                          13
13
               And the company conducting their
                                                                        MR. FOWLER: Objection: Form,
                                                          14
<sup>14</sup> bioequivalency studies is the company that the FDA
                                                                    mischaracterizing, lack of foundation,
                                                          15
   is saying has frequent alterations in their
                                                                    facts not in evidence.
                                                          16
  laboratory records?
                                                                        THE WITNESS: It's not my
17
                                                          17
             MR. FOWLER: Objection: Form,
                                                                    testimony. It's what's in the letter
18
         hearsay, facts not in evidence.
                                                          18
                                                                    that you just provided me.
19
                                                          19
             THE WITNESS: Yeah, I don't see
                                                                        MR. VAUGHN: And let's go to
20
                                                          2.0
         which studies it applies to, but I see
                                                                    page 11, Melisha.
21
                                                          21 BY MR. VAUGHN:
         that.
22 BY MR. VAUGHN:
                                                          22
                                                                         And this was signed by the FDA's
23
                                                             Chief of Bioequivalence Investigations branch,
               All right.
24
             MR. VAUGHN: Let's go down to the
                                                          24
                                                             correct?
25
                                                          25
         fourth paragraph, three lines up from
                                                                    A.
                                                                         Well, I don't see a signature,
```

Page 182 ¹ but.... ¹ you showed me was concerned about the Houston 2 ² facility. The ANDAs that I cited were done in Q. The name and the position of the ³ North Dakota and Minneapolis, No. 1; and then ³ person at the end of the letter is the FDA's Chief ⁴ of Bioequivalence Investigations branch, correct? ⁴ secondly, it looks like the ANDAs that were MR. FOWLER: Object to the ⁵ withdrawn were not the ones that I reported in --⁶ in my report. 6 mischaracterization of that being a 7 So I think if the FDA had had a signature. 8 MR. VAUGHN: Oh, you're right. problem with those in those other facilities, then ⁹ they would have withdrawn those like they did ⁹ BY MR. VAUGHN: 10 Q. Signature is the Office of 10 these. ¹¹ Scientific Investigations and Office of Compliance And you see here it took the FDA Q. ¹² for the Centers of Drug Evaluation and Research, six years before they withdrew it, correct? ¹³ U.S. FDA, Food & Drug Administration, correct? MR. FOWLER: Form. 14 14 THE WITNESS: I -- I mean, A. Yes, I see the -- the listing of 15 ¹⁵ those people's names and their positions there. whatever it says, that's what it says, 16 16 MR. VAUGHN: All right, Melisha, but I'm saying it didn't involve the 17 17 let's go to Teva ANDAs Withdrawn over ANDAs that I reported on. 18 Cetero Data document. Let's go to the BY MR. VAUGHN: 19 19 second page. But it did involve the contract 20 research organization that did the studies for the This will be Exhibit 21. 21 ANDAs you reported on, correct? (Exhibit 21 was marked.) 22 ²² BY MR. VAUGHN: A. Correct. Except not in the Q. That top paragraph, Doctor, do ²³ facility that was cited. In the other facilities ²⁴ you see where it says: After a six-year effort, ²⁴ that was not cited. ²⁵ the U.S. FDA has run out of patience with Watson Q. My headset just made a noise that Page 185 Page 183 ¹ Laboratories and InvaGen Pharmaceutics and is ¹ it's low on batteries. ² moving to withdraw approval of two of their pr---MR. VAUGHN: Can we go off the ³ abbreviated new drug applications because the 3 record real quick, just take a ⁴ firms failed to conduct additional bioequivalency 4 five-minute break? ⁵ studies for the products the companies' ANDAs were THE VIDEOGRAPHER: The time is 6 ⁶ supported by, bioequivalence studies conducted at now 2:45 p.m. We're off the record. 7 ⁷ Cetero Research? (Brief recess observed.) 8 8 MR. FOWLER: Objection: Hearsay, THE VIDEOGRAPHER: The time is 9 9 lack of foundation, facts not in 2:53 p.m. We're back on the record. 10 10 MR. VAUGHN: All right, Melisha, evidence, relevance. 11 11 THE WITNESS: I see that. can we now pull up ¹² BY MR. VAUGHN: 13 Are you aware that Watson is now Q. 14 Teva? 15 I'm aware that -- now how ¹⁶ to -- how to -- how to word who's what, but I ¹⁷ think they either bought Watson or incorporated ¹⁸ Watson or something. 19 Which -- which ANDAs were ²⁰ withdrawn? Were they the ones I'm talking about ²¹ or other ANDAs? 22 They're ANDAs that used the same ²³ contract research organization to do their ²⁴ bioequivalency studies. 25 Well, again, the -- the data that

Case 1:18/11/11-192875:18MB-5AKor-Ragument 2084:10-j Eiled 96/02/220t 8899 48 of 11-der PagelD: 72428

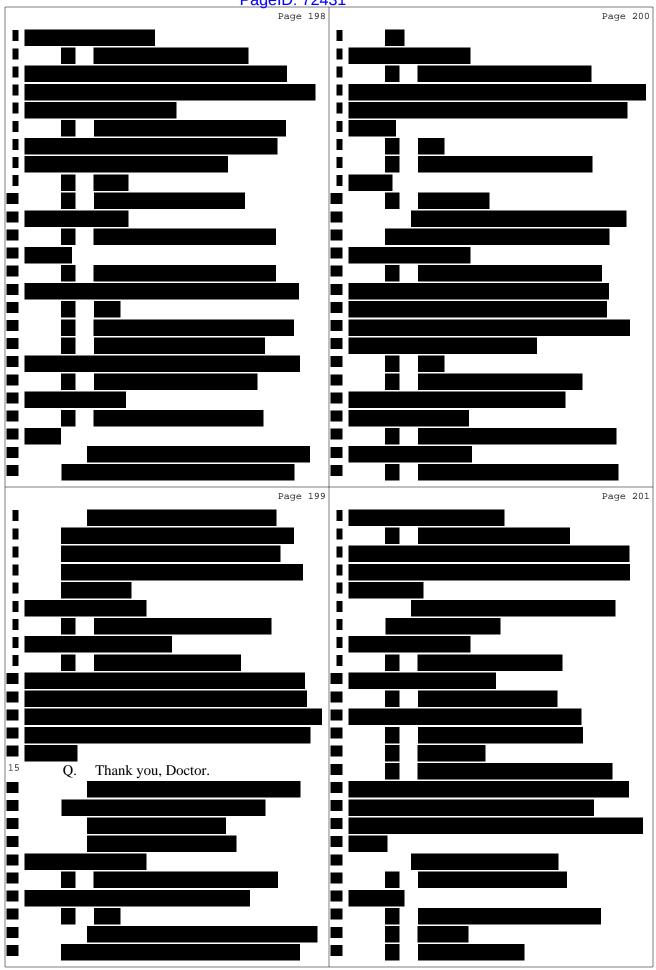


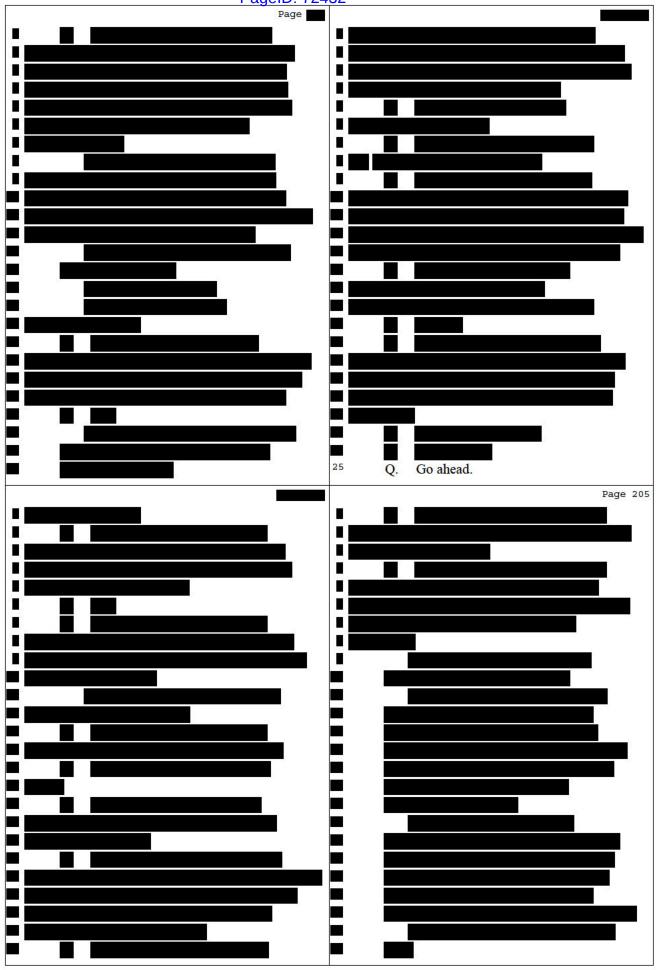
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Case 1:13-nmd-02375-FMB-5AKor-nagumant 2084-76-j Eiled 06/02/220t Eage 5-6-06-1-der PageID: 72430





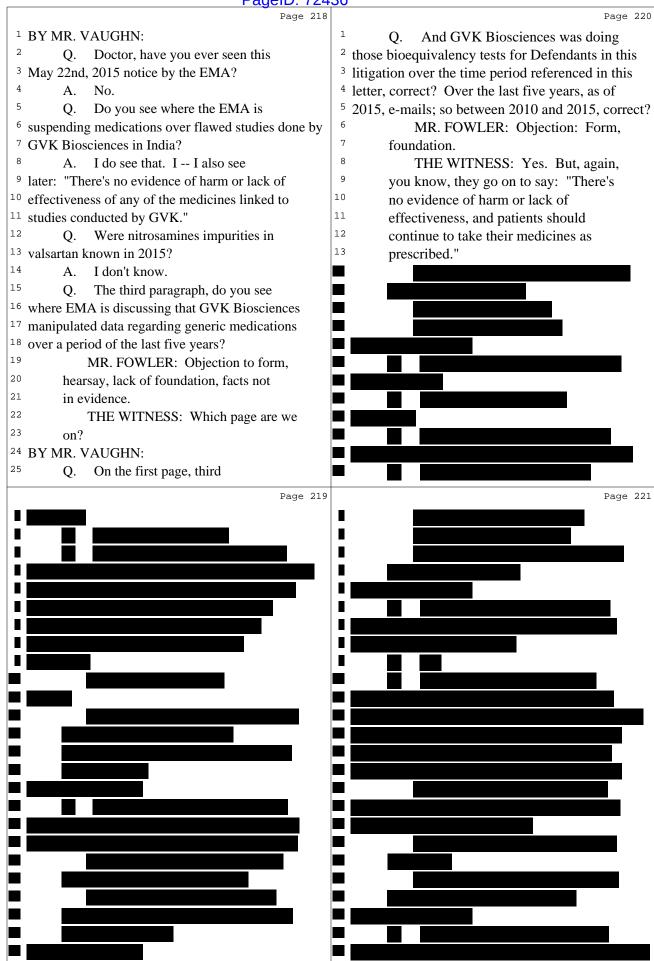




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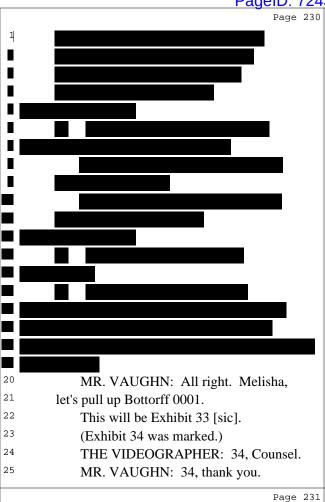




Case 1:13-nmd-02375-FMB-5AKor-nagumant 2084-76-j-Eiled 06:02/22-o-t-Eage 58-06/11der PageID: 72437







²⁴ the -- the valsartan products unapproved because ²⁵ of the president [sic] -- presence of a

their database.

O.

contaminants?

20

21

22

Page 233

And why are you taking notes on

Because the section of the report

¹ BY MR. VAUGHN:

Q. Doctor, are the -- these the ³ notes you took in preparation for your general ⁴ causation expert report? 5

A. Yes.

6

25

MR. VAUGHN: Melisha, can we go to 11? All right, C? Do you see where that's at, Melisha? Yeah, paragraph. BY MR. VAUGHN:

O. Doctor, what does the last sentence of your notes say on that paragraph?

"New active ingredient does not 13 equate to an int- -- contaminant." This is not my ¹⁴ statement. These are -- in this section of my ¹⁵ report, I was making notes on what was in the ¹⁶ original filing. So it's a regurgitation of what ¹⁷ someone else who filed the -- the causation ¹⁸ lawsuit. This isn't me making a statement. It's ¹⁹ me regurgitating what was put by someone else in ²⁰ the original lawsuit filed.

I even cite page 124, I think, in ²² that paragraph just above. In the same paragraph, ²³ but just above there. So this isn't me. This is me quoting what was in the document I reviewed.

Okay. And what about further

Golkow Litigation Services

¹ contaminant. So I was making notes about what the

²³ or the original suit that was filed kept calling

¹ down right below the very bottom where you note:

At this point, to put it into ⁶ context, I was talking about the FDA definition of ⁷ inactive versus an active ingredient, like I was ⁸ referring to a few minutes ago, where the active ⁹ ingredient is a drug product intended to furnish a pharmacologic activity in the diagnosis, cure, medication, treatment or prevention of disease. Then there is an inactive ¹³ ingredient database. And the FDA's inactive

excipients, methyl cellulose, mannitol, you know, things that are used in the tableting process. So that inactive ingredient database does not include contaminants. That's under Chemical Hazards in

² "FDA inactive ingredients database does not ³ involve contaminants which are covered under ⁴ chemical hazards," is that from a complaint?

¹⁴ ingredient database are for things like

of the filing.

Q. Is NDMA or NDEA chemical hazards?

² FDA's definitions are in response to that portion

I don't know if they're under the Chemical Database or not, but they're clearly

considered an impurity.

8 Are NDMA and NDEA chemicals? O. 9

A. Chemicals.

10 Q. What does the word "hazardous"

mean to you? 12 Causing hazard.

What does "hazard" mean to you? Q.

Some form of hazard. It's a very A.

broad definition.

13

14

16

17

Q. So it's your position -- go ahead.

I'm sorry. Just in my reports, I never disagreed with the IARC definition of NDMA, or NDEA for that matter, being a probable human

²¹ carcinogen, which is exactly the category that ²² they're listed in. I've never disagreed with that

²³ at all. What I've always contended in both

²⁴ reports, that it's an issue of how much and in ²⁵ what form of intake.

Page 59 (230 - 233)

Page 234 Page 236 1 1 You don't disagree with the IARC with that. ² definition that NDMA or NDEA are probable human 2 My point is in humans, I don't 3 ³ carcinogens, but you dropped it from the second believe they're carcinogenic in the ⁴ version of your expert report? 4 manner in which they are taken, which is 5 I dropped -oral, at the levels of exposure, which 6 Is it --O. are in the low microgram quantities. A. -- saying that I don't believe --BY MR. VAUGHN: 8 ⁸ that I don't believe they are able to cause human And is it your position, then, carcinogenesis in the route of administration and that the contamination has to reach an unsafe at the doses or exposure levels that we're talking level before it's actually considered a ¹¹ about. contamination? 12 12 Is it -- in your opinion about MR. FOWLER: Objection, beyond 13 13 the drugs -- that when drugs are approved but that the scope of this report, Counsel. 14 they are contaminated -- scratch that. Can you make any proffer how that 15 15 Is it your position that a drug possibly relates to the class 16 is only contaminated when it reaches an unsafe certification report that he has filed, 17 17 level of impurity or contaminant? or am I just missing something? 18 MR. FOWLER: Objection to form. 18 BY MR. VAUGHN: 19 You're outside the scope of the class 19 Doctor, do you think these drugs 20 20 certification report, Counsel. I'm have any value? 21 letting this go a little bit, but you're What I believe, which is in the 2.2 ²² -- the rather lengthy Bioequivalence section of my -- you're far afield. 23 You need the question again, report, is that the bioequivalence, due to the 24 ²⁴ presence of NDEA or NDMA, is not altered and, Doctor? 25 THE WITNESS: Yeah, if I'm ²⁵ therefore, they produce the intended therapeutic Page 237 Page 235 1 expected to answer it, I would like to ¹ benefit, whether it was lowering blood pressure or 2 hear the question again. managing heart failure or in a post-MI situation. 3 So, no, I don't believe they had MR. VAUGHN: Court Reporter? 4 THE COURT REPORTER: Yes? any loss of their therapeutic benefit. 5 MR. VAUGHN: I can reask it. Q. Are you aware of it being illegal 6 to sell a drug with an unsafe level of THE COURT REPORTER: It's okay. 7 I can -nitrosamines in them? 8 8 MR. FOWLER: Objection to form. MR. FOWLER: We'll hear -- we'll 9 9 hear it from the court reporter, please. By the very question, it called for a 10 10 legal conclusion. Go ahead. 11 11 MR. VAUGHN: Please quit THE COURT REPORTER: Okay. 12 12 (The previous question was read interrupting. You're -- you're coaching 13 13 into the record as follows: "You don't him. You've been coaching him the 14 14 disagree with the IARC definition that entire deposition. 15 15 NDMA or NDEA are probable human MR. FOWLER: No, I'm not. 16 16 carcinogens, but you dropped it from the MR. VAUGHN: These are improper 17 17 second version of your expert report?") depositions. We're going to reserve our 18 THE WITNESS: And so, no, there 18 right for sanctions. 19 19 was no intent by, quote/unquote, MR. FOWLER: So the Court has 2.0 20 dropping it from my second report, which asked for specificity in objections, 21 21 was implying that it was done which I've provided, and it's a proper 22 22 objection. Asking him if something is intentionally, which it was not. So I 23 still agree with the IARC classification 23 illegal asks for a legal conclusion. 24 of being probable human carcinogens. I 24 MR. VAUGHN: Do you not recall 25 25 have -- I have no reason to disagree the Court sanctioning you guys because

Page 238 Page 240 1 1 you were objecting to "the document training and background, but my 2 2 speaks for itself" previously, which has understanding of adulteration are 3 3 been one of your objections in this impurities that are outside the 4 4 deposition? Do you recall that, manufacturing process, so during storage 5 5 Counselor? or some other nonmanufacturing process 6 MR. FOWLER: I'm not testifying, that results in adulteration. 7 BY MR. VAUGHN: Counsel. Move on. BY MR. VAUGHN: Transportation of the drug 9 product count, if it got contaminated during Q. Doctor, are you aware that it would be illegal to sell a drug with unsafe levels transportation? of nitrosamines in them in the United States? A. I think that probably would fit 12 MR. FOWLER: Objection, form. under that adulterated category, because it's not 13 part of the manufacturing process. THE WITNESS: And -- and my 14 14 And do you know if any of the answer is no, I do not have any opinion 15 on what becomes legal or illegal. I Defendants are claiming that their product got 16 have no legal opinions in this case. contaminated during transportation? 17 17 BY MR. VAUGHN: A. Never seen such materials or 18 Q. If it would be illegal to sell 18 documentation. something in the United States, does it really 19 Are you aware that if a drug is 20 20 have any value? contaminated, it's considered adulterated? 21 21 MR. FOWLER: Form. MR. FOWLER: You're asking for a 22 22 THE WITNESS: Again, I have no regulatory opinion. It's outside the 23 opinions on legality. My opinions were 23 scope of this report. 24 24 on whether the bioequivalence was THE WITNESS: Yeah. Again, I --25 25 violated by the presence of the I don't have regulatory input. That's Page 239 Page 241 1 impurities, and I do not believe that -- that's not the nature of my report. 2 and I believe they maintain their BY MR. VAUGHN: 3 therapeutic expected response. Q. As a pharmacist, do you have an ⁴ BY MR. VAUGHN: understanding that an adulterated drug is not supposed to be sold to U.S. consumers? Q. Based purely off of 6 ⁶ bioequivalency studies that you reviewed that did MR. FOWLER: Objection to form. ⁷ not involve nitrosamines in the drug product? 7 Again, outside the scope of the class 8 A. I believe in answering that cert report and opinions therein. ⁹ question a few times before, I said that there's a 9 THE WITNESS: Again, 10 likelihood that some of the products did have 10 adulteration, I don't know is what we're 11 nitrosamine in them. And if they did, it still 11 talking about here, but pharmacists ¹² wouldn't have affected their bioequivalence, and 12 would not dispense a known adulterated 13 therefore their therapeutic response. product. 14 14 And you have no document to cite BY MR. VAUGHN: 15 to that they were likely contaminated at that 15 Q. I have no further questions at 16 time? 16 this time. 17 17 I have no document. I've -- I've MR. FOWLER: We'll take a few 18 previously stated that. 18 minutes, and I've got some redirect. 19 19 Q. Do you have an understanding of Let's take ten. what it means for a drug to be adulterated? 20 20 THE VIDEOGRAPHER: The time is 21 MR. FOWLER: Objection: Form, 21 now 4:13 p.m. We're off the record. 22 22 outside the scope of this general --(Brief recess observed.) 23 this class action report. 23 THE VIDEOGRAPHER: The time is 24 THE WITNESS: I have a -- a basic 24 4:26 p.m. We're back on the record. 25 25

understanding because of my pharmacy

EXAMINATION

Page 242 ¹ CV. So it went -- it went beyond just me being ¹ BY MR. FOWLER: Q. Dr. Bottorff, I'd like to show ² involved in some bioequivalence studies in around ³ you what I'm marking as Bottorff Exhibit 35. And ³ 1982 or 1983, but probably the next ten years, I ⁴ -- which is Defendants' Responses and Objections ⁴ did maybe a dozen more of those kinds of studies. ⁵ to Plaintiffs' Notice of Videotaped Oral Doctor, do you recall some ⁶ Deposition Michael Bottorff, Pharm.D. ⁶ questions towards the end of -- of the questioning (Exhibit 35 was marked.) ⁷ today with -- where you mentioned definitions of ⁸ BY MR. FOWLER: ⁸ FDA concerning active ingredients and inactive Handing you that. Have you seen ingredients. Q. 10 that document before? Do you recall those questions? 11 11 A. Yes. A. I do. 12 12 You've reviewed that with us? O. O. Let me mark Exhibit 37. This is 13 A. I did. 21 CFR 314.3 Definitions. 14 14 Okay. Let me mark as Exhibit 36 Q. (Exhibit 37 was marked.) 15 your Curriculum Vitae, Doctor. BY MR. FOWLER: 16 16 (Exhibit 36 was marked.) Q. And if you'd take a look at that, 17 BY MR. FOWLER: Doctor, and I'd ask you: Does that document 18 contain FDA's definitions of those active Q. Can you tell us whether that is your -- your current CV? ingredient, inactive, things like that? 20 Yeah. This has -- I mean, it's A. Yes. 21 ²¹ the -- it's the Code of Federal Regulations 314, MR. VAUGHN: Real quick, Counsel. 2.2 so they're in here. Are these in the -- the folder for me to 23 23 Can you locate the Active access? 24 ²⁴ Ingredient definition and read it for the record, MR. FOWLER: I believe so. 25 25 please? (Discussion off the record.) Page 243 Page 245 1 A. Let's see. "Active ingredient is MR. FOWLER: Oh, I see what he's 2 doing. Sorry, Counsel. I didn't ² any component that is intended to furnish 3 ³ pharmacologic activities or other direct effect of understand my -- my colleague. He's --⁴ the diagnosis, cure, mitigation, treatment, or he's load- -- loading those up. ⁵ BY MR. FOWLER: ⁵ prevention of disease, or to affect the structure 6 ⁶ of function of the body in man or -- or animals," Is that -- continuing on 36, Q. ⁷ Doctor. if it's veterinary products. Does that CV include your more "The term includes those recent appointment to what you referred to as the components that may undergo chemical change in the 10 IRB? manufacture of the drug product and be present in 11 the drug product in a modified form intended to A. Yeah, the Advarra IRB is on here. 12 furnish the specified activity or effect." O. Doctor, you were asked early on in the deposition about your experience with So it's an intended act or ¹⁴ bioequivalency studies, and I believe you only got 14 ingredient. as far as maybe in your first year of residency at 15 Thank you. 16 the University of Kentucky, or maybe undergrad. And can you read Inactive 17 Have you had other experience Ingredient, please? ¹⁸ working with, conducting, bioequivalency studies? 18 MR. VAUGHN: Steve? Steve, I'm 19 19 Yeah. When I first started still not seeing this document in the 20 ²⁰ faculty at the University of Tennessee, that would exhibit folder. I've refreshed it 21 ²¹ have been 1983, I was probably involved in and several times. 22 ²² analyzed and published maybe a dozen MR. FOWLER: Tim's working ²³ pharmacokinetic-based bioavailability studies with 23 vigorously. ²⁴ a variety of cardiovascular drugs. And so those 24 MR. VAUGHN: He's working on 25 ²⁵ are all publications that are -- that are in my dropping it in, is that what you said?

Page 246 1 ¹ it's uncommon when companies are making generic MR. FOWLER: Yeah. He's working 2 ² products, sometimes on the first run, to have on it. I threw him a curve ball. 3 3 something that ends up not being bioequivalent and Sorry. 4 MR. VAUGHN: All right. ⁴ requires going back to the drawing board and 5 MR. FOWLER: He wasn't ready for ⁵ altering particle size or some other component of 6 ⁶ the formulation until they -- until they get the that one. 7 product that is going to be bioequivalent that MR. VAUGHN: Not a problem. would then be FDA approved, the ANDAs approved, BY MR. FOWLER: 9 Doctor, can you find the and then it's allowed to be given to patients as an AB-rated generic drug. 10 definition of Inactive Ingredient in that CFR 11 document? That's not, I don't believe, 12 uncommon. I don't have statistics on that, but I A. Yes. That's on page --13 think it's unrealistic to expect them to get it O. They're alphabetical, aren't 14 right on the first time every single time. And they? 15 Yeah. That's on page 5 of 11 in those are -- as long as those are disclosed to the that document. It's any component other than the FDA that we made this change and now we want this active ingredient. approved, and then the FDA approves it. And so 18 O. Is that what it says? all the ANDAs that I -- I included in my report 19 were FDA reviewed, approved, AB-rated and allowed A. That's what it --20 to be generically substituted for a brand name O. Can you read it verbatim? 21 "Inactive ingredient is any valsartan product. A. 22 Q. Did any of the BE documents, even component other than active ingredient." 23 So that would cover contaminants, ²³ including the failed ones that counsel showed you, did any of those show that the valsartan's impurities, excipients, or whatever. 25 It refers to specifically the ²⁵ bioequivalence was affected by the presence of Page 249 Page 247 ¹ other compounds, whether they be, you know, ¹ components, doesn't it? 2 amlodipine, HCTZ or the combination thereof? A. Yes. 3 Yeah, again, we don't know which Q. Can you read the definition for a ⁴ Component? ⁴ did or didn't have NDMA, but inclusion of the 5 MR. VAUGHN: May the record ⁵ combination products was demonstrated to support a 6 scientific conclusion that without an overlapping reflect as the Defense counsel 7 repeatedly objected to any type of ⁷ either metabolism or drug distribution system, 8 that those compounds in with valsartan, even in regulatory questions or opinions and now 9 is solely focussed on regulatory milligram quantities, much less microgram 10 quantities, would not be expected to have any questions. 11 THE WITNESS: "Component is any altering effect on the bioequivalence, and 12 ingredient intended for use in the therefore the therapeutic response to valsartan. 13 Regard to -- I'm showing you what manufacture of a drug product, including 14 those that may not appear in such drug was marked as Exhibit 19. This, I'll refer to it 15 as the bankruptcy document with regard to PRACS. product." 16 So that could be a lot of Is there any mention of valsartan or valsartan 17 excipients and those kinds of things. testing anywhere in that document? 18 BY MR. FOWLER: 18 A. No. 19 19 With regard to the -- with regard O. Thank you. 2.0 to Exhibit 20, Doctor, do you recall the -- the Doctor, have you seen anything in ²¹ the documents that -- that Plaintiffs' counsel has questions concerning Cetero's bioequivalence data shown you today with regard to the ANDAs or the and FDA's investigation of that? bioavailability studies that change -- change any I'm showing you 20 -- Exhibit 20. of your opinions in this case? ²⁴ Do you recall those questions, the questions on 25 25 the document? No. And -- and I don't think

8

Page 250 Yes.

2 Can you turn to the second page ³ and identify what are the drugs that those ANDAs

⁴ of reference in that Exhibit 20, what are those

5 drugs?

A.

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6 Federal Register Notices on ⁷ October 28th. "The agency is proposing to 8 withdraw Watson's Oxycodone/ibuprofen ANDA and

InvaGen's Trandologril (phonetic) ANDA."

10 Q. Is there anything in that 11 document that suggests FDA was critical of any 12 testing of the valsartan bioequivalence, if any

13 was done at all at that -- by that company at that 14 location?

> A. No mention of valsartan at all.

16 O. Doctor, can you explain why it is ¹⁷ that you spent the time reviewing the BE data from ¹⁸ each of the various generic manufacturers for the 19 various drugs, whether it's valsartan by itself or ²⁰ in combination? What was the im- -- what was the ²¹ importance? What was -- why did you review those

²² -- that data, and how did it factor into your ²³ opinion?

24 MR. VAUGHN: Object to the form. 25 THE WITNESS: Again, from a pure

¹ example, hand you Exhibit 14 -- hand you

² Exhibit 14 (tendering) -- and direct your

attention to the table showing the BE results.

Let me know when you're there.

I'm there. A.

The BE results were outside of Q. the 80 to -- is it 120 is the FDA range?

> A. 125.

9 When they are -- when the BE O. results as reflected there in Exhibit 14 were outside the range, do you attribute any of that to any presence of NDMA or NDEA?

A. No. Again, this is usually due ¹⁴ to some type of tableting issue and -- and particle size. So it's -- it's -- I would not attribute it to NDEA or NDMA at all.

17 Q. Based on your understanding of the science of the bioequivalence study process, can you explain what reformulation does and how that would translate to different results of the 21 BE studies? 22

MR. VAUGHN: Object to the form. THE WITNESS: Yeah, again, this starts getting into a pharmaceutics process that's a little bit -- I've had

Page 253

Page 251

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scientific standpoint, if two compounds that are known to be in the same tablet, let's say, have the chance to interfere with each other altering the effect of certainly the intended compound, in this case valsartan, then I wrote a -- a fairly lengthy section in my report about what are the different mechanisms whereby there would be an interruption of the valsartan effectiveness. It had to be its absorption, it had to be its metabolism, it had to be its hepatic distribution, or its effect at the angiotensin II receptor site.

And there's no mechanism whereby NDMA or NDEA can do that. There's no mechanism whereby hydrochlorothiazide, which is in there, can do that. And there is no mechanism where amlodipine does that. So none of those substances have any mechanisms to alter either the kinetics or the therapeutic response to valsartan.

24 BY MR. FOWLER:

You were shown -- let me, for

a little bit of training in that and -and understanding and have read some articles throughout the years.

But it's mostly involving the -the tableting, the particle size, the pressure with which you compress the tablet, the film coating, the things that result in the tablet disintegrating and then releasing the active ingredient.

And so it's -- it's more of a pharmaceutics development, tinkering that you do with your products to get the intended dissolution and then ultimate bioequivalence that you're looking for.

BY MR. FOWLER:

17 Q. Does the fact that some of the studies, the BE studies you were shown by counsel, were studies under 100 percent males and 100 percent Asian males, does that have any impact on ²² -- first of all, on the validity of the BE 23 results?

No. Again, the FDA allowed those ²⁵ studies to be done and approves the ANDAs in the

Page 254 ¹ face of those. And remember, what you're doing 1 THE WITNESS: In -- in the 2 ² with the bioequivalence study in the same person context that we were talking about at 3 ³ is comparing test product with reference products. that time, we were talking about the And then you take it to another 4 ability to measure an elimination 5 ⁵ person and you test, test product versus reference half-life and how that's affected by ⁶ product. And the fact that that, both times, was 6 blood flow, liver blood flow. You can ⁷ in a male or that they weighed 60 kilograms, if 7 only measure that if there's drug in the 8 ⁸ you then take that same release characteristic to blood. And with NDMA at the amounts 9 ⁹ a female or a person that weighs 78 kilos or a that we're talking about, that has to be 10 ¹⁰ person that's 39 instead of 29, you're still given intravenously, and then you can 11 within that same person going to see the -- the 11 measure the decline in blood because it 12 ¹² approvable release characteristics in that -started there and you watch it go down. 13 ¹³ between those two products. It'll retain its And some of that blood flow goes to the 14 ¹⁴ bioequivalence. liver, some goes to the heart, some goes 15 15 Q. Do the test subjects or the test to the lungs, you know, whatever. 16 methodology of the BE studies, that you were That issue doesn't apply when you 17 shown, impact your opinion with regard to the talk about giving low doses of these presence of NDMA and its impact, if any, on 18 high-clearance drugs in an oral format 19 bioequivalence? 19 that don't reach the systemic 20 20 circulation. You can't measure a A. I think it's --21 21 MR. VAUGHN: Object to form. half-life in a situation where there's 22 22 THE WITNESS: -- a similar no measurable drug there to begin with. 23 question worded slightly -- I'm sorry, 23 BY MR. FOWLER: 24 go ahead. Q. Doctor, directing your attention 25 MR. VAUGHN: I -- object to form. ²⁵ to your report. Do you have that in front of you? Page 255 Page 257 1 You're good. A. I do. 2 THE WITNESS: Okay. I think it's O. Has counsel asked you about all 3 of your opinions in your report today? a similar question asked a slightly 4 different way, and -- and as I've stated Pretty much focussed on -- on 5 ⁵ bioequivalence, I would say. multiple times today -- and it's in my 6 Do you have -- turning your report -- the presence of NDMA and NDEA, 7 ⁷ attention to page 52. Do you see a Summary of there's no mechanism, no scientific Opinions and Conclusions section? 8 rationale beyond how they could alter 9 9 the bioequivalence of any of the A. Yes. 10 10 valsartan products. Q. Would you please read both of those points on page 52 going over to 53 to the 11 BY MR. FOWLER: 12 12 third point, please? Would that be true for either 13 13 gender or any race, in your opinion? A. Okay. There are three main 14 Yeah, that's -- would be points that I addressed in -- in my report, and A. they're -- they're summarized on the end of page independent of those issues. Early in the deposition, there 52 and at the beginning of page 53. were questions about the circulation of -- of The first is relevant to what we 18 blood. had a lot of questions on today, and it basically 19 is that the presence of NDMA and NDEA in valsartan Do you recall those questions? 2.0 could not have had any effect on the kinetics, Uh-huh. Yes. Sorry. A. 21 ²¹ dynamics, bioavailability or bioequivalence of O. And does -- how, if at all, does the blood circulation play a role in your opinions valsartan generic products because there's --

the valsartan?

25

in this case with regard to the NDMA and -- and

MR. VAUGHN: Object to form.

Just please -- just read your --

Oh, read it verbatim?

²⁴ read from your paragraph, please.

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¹ Q. Yes, sir.	¹ A. Yes.
² A. I'm sorry.	² Q. We also marked
³ Q. You were doing fine.	³ MR. FOWLER: I think we're up to
⁴ A. "The compounds do not share any	Exhibit 37 [sic], Counsel.
⁵ known pharmacokinetic or pharmacodynamic	⁵ BY MR. FOWLER:
6 mechanism. The presence of active intended	⁶ Q simply the list of materials
7 ingredients with valsartan, such as	⁷ considered that was provided to you. I just
8 hydrochlorothiazide or amlodipine, also did not	⁸ wanted to mark that as an exhibit.
⁹ alter valsartan bioequivalence for the same	9 (Exhibit 38 was marked.)
10 reasons, so there is no overlapping	¹⁰ BY MR. FOWLER:
11 pharmacokinetic process. Thus, there is no	Q. Doctor, do you recognize that as
¹² conceivable way for NDMA or NDEA, merely by being	12 your Materials Considered list?
present, to alter the bioequivalence of valsartan,	13 A. Yes.
and thus its therapeutic response and efficacy."	Q. And then Exhibit 38 [sic] is
Q. Thank you. And you have another	MR. FOWLER: Counsel, I'm holding
16 opinion?	up the flash drive of Dr. Bottorff's
And my second opinion gets back	Materials Considered. So we're going to
18 to this concept of first pass metabolism. "The	send this to the court reporter as we've
19 levels of NDMA or NDEA that the FDA has detected	done in other depositions and be copied
20 in affected valsartan tablets, when these are	that way.
21 taken on a daily basis, would not exceed the	This is Exhibit 38 [sic]. Madam
22 liver's capacity to metabolize the NDMA or the	Court Reporter, we'll mail that to you.
23 NDEA contained in those tablets in a first pass	(Late-filed Exhibit 39 was
24 metabolism process. And according-"	
25 "accordingly, NDMA or NDEA is unlikely to reach	marked.) ²⁵ BY MR. FOWLER:
accordingly, NDWA of NDEA is unlikely to leach	23 BI MR. FOWLER:
Page 25	9 Page 261
¹ the systemic circulation or other organ systems	¹ Q. If you'll indulge us for a
² outside of the liver; therefore, there is no	² moment, I may be about finished.
³ scientific basis to assume that there is any	My much more attentive colleague
⁴ increased risk to other organ systems which	⁴ has pointed out that the Materials Considered is
⁵ support the medical monitoring that is proposed by	⁵ 38 and the flash drive should be 39, so we'll just
⁶ Plaintiffs' expert Dr. Kaplan."	⁶ fix that.
⁷ Q. Thank you.	⁷ And with that, I'll I'll I
8 And on the on the next page,	⁸ have no further questions.
⁹ do you have another opinion?	⁹ Thank you very much, Doctor.
10 A. I have another opinion, and	MR. FOWLER: Counsel.
¹¹ and this was more of a mathematical. "Based on	MR. VAUGHN: Can you just give me
12 the known pharmacokinetic principles of	five minutes to consult with my
13 accumulation, the daily exposure" which in this	cocounsel? I'll be right back. We'll
¹⁴ case is usually every 24 hours "to NDMA or NDEA	be real quick.
 case is usually every 24 hours "to NDMA or NDEA would not accumulate, given the known elimination 	be rear quiek.
	be real quiek.
¹⁵ would not accumulate, given the known elimination	THE VIDEOGRAPHER: Shall we go
would not accumulate, given the known elimination half-life of these compounds, which are in" "measured in minutes."	THE VIDEOGRAPHER: Shall we go off the record? MR. VAUGHN: Please.
would not accumulate, given the known elimination half-life of these compounds, which are in" "measured in minutes."	THE VIDEOGRAPHER: Shall we go off the record? MR. VAUGHN: Please. THE VIDEOGRAPHER: The time is
 would not accumulate, given the known elimination half-life of these compounds, which are in" "measured in minutes." So to give something that's gone in three to five half-lives, of a five- to 	THE VIDEOGRAPHER: Shall we go off the record? MR. VAUGHN: Please. THE VIDEOGRAPHER: The time is 4:51 p.m. We're off the record.
would not accumulate, given the known elimination half-life of these compounds, which are in" measured in minutes." So to give something that's gone in three to five half-lives, of a five- to ten-minute elimination rate, there's no way, given	THE VIDEOGRAPHER: Shall we go off the record? MR. VAUGHN: Please. THE VIDEOGRAPHER: The time is 4:51 p.m. We're off the record. (Brief recess observed.)
would not accumulate, given the known elimination half-life of these compounds, which are in" measured in minutes." So to give something that's gone in three to five half-lives, of a five- to ten-minute elimination rate, there's no way, given that once every 24 hours, could lead to any type	THE VIDEOGRAPHER: Shall we go off the record? MR. VAUGHN: Please. THE VIDEOGRAPHER: The time is 4:51 p.m. We're off the record. (Brief recess observed.) THE VIDEOGRAPHER: 4:56 p.m.,
would not accumulate, given the known elimination half-life of these compounds, which are in" measured in minutes." So to give something that's gone in three to five half-lives, of a five- to ten-minute elimination rate, there's no way, given that once every 24 hours, could lead to any type of accumulation at all.	THE VIDEOGRAPHER: Shall we go off the record? MR. VAUGHN: Please. HE VIDEOGRAPHER: The time is 4:51 p.m. We're off the record. (Brief recess observed.) THE VIDEOGRAPHER: 4:56 p.m., we're back on the record.
would not accumulate, given the known elimination half-life of these compounds, which are in" measured in minutes." So to give something that's gone in three to five half-lives, of a five- to ten-minute elimination rate, there's no way, given that once every 24 hours, could lead to any type of accumulation at all. Q. Do you hold those opinions to a	THE VIDEOGRAPHER: Shall we go off the record? MR. VAUGHN: Please. HE VIDEOGRAPHER: The time is 4:51 p.m. We're off the record. (Brief recess observed.) THE VIDEOGRAPHER: 4:56 p.m., we're back on the record. EXAMINATION
would not accumulate, given the known elimination half-life of these compounds, which are in" measured in minutes." So to give something that's gone in three to five half-lives, of a five- to ten-minute elimination rate, there's no way, given that once every 24 hours, could lead to any type of accumulation at all.	THE VIDEOGRAPHER: Shall we go off the record? MR. VAUGHN: Please. HE VIDEOGRAPHER: The time is 4:51 p.m. We're off the record. (Brief recess observed.) THE VIDEOGRAPHER: 4:56 p.m., we're back on the record.

Page 262 1 ¹ opinions contained within your class action expert destruction process that is not flushing 2 ² report apply equally to all potential class them down the toilet. So that's just 3 ³ members? not how it happens these days. ⁴ BY MR. VAUGHN: A. I'm not sure exactly what that ⁵ question means. What -- what -- what does that Q. All right. Regardless, you ⁶ mean exactly so I can better answer it? ⁶ wouldn't be able to sell the contaminated drugs, Q. Which part of the question are correct? 8 you having trouble with? MR. FOWLER: Objection: Form, 9 Well, maybe start with the outside the scope of his report and his 10 definition of the class members. Are they the 10 testimony and the redirect. 11 ¹¹ people who have filed, like, claims or.... THE WITNESS: Yeah, I -- again, 12 I -- I understand now, Doctor. in -- in your hypothetical, you would 13 13 Do all of your opinions contained have to know that something was 14 ¹⁴ within your class action expert report apply adulterated, so I don't -- I don't know 15 equally to all of the Defendants? what that process is. 16 16 Again, I don't know if I had BY MR. VAUGHN: 17 bioequivalence data on -- well, from every Q. As a pharmacist, if the FDA would ¹⁸ Defendant, but I -- I think it does because of the not let you sell a drug to the U.S. public, what ¹⁹ reasons behind it. It doesn't matter that NDMA would you do? Would you be able to get your money may have been in there or not. It wouldn't affect back from the manufacturer? 21 the bioequivalence. So I guess I would say yes. MR. FOWLER: Objection, form. 22 22 As a pharmacist, if you are in This is outside the scope of his 23 possession of an adulterated drug, would you entire report, of his testimony, and 24 ²⁴ return that adulterated drug to a manufacturer, or outside of my redirect. Nothing about 25 ²⁵ would you just throw it away? The redirect opened up questions for Page 265 Page 263 1 1 MR. FOWLER: Objection: Form, what a pharmacist is going to sell, 2 2 Counsel. scope. 3 3 THE WITNESS: I've never been in MR. VAUGHN: He -- he submitted 4 4 an expert report in a class action that position of -- in -- in that type 5 5 of practice. I guess I would follow saying this stuff is worth money. 6 6 whatever my -- my company's policy was. MR. FOWLER: You should have 7 But I don't -- I don't know what that 7 asked him about that in your case in 8 8 is. I don't know what that would be. chief here on -- on direct. You're 9 BY MR. VAUGHN: going back, for whatever reason. It's 10 Q. Would you be afraid of outside the scope, and I would have 11 contaminating the groundwater if you're just objected to it in the first place. 12 throwing away drugs that are contaminated with MR. VAUGHN: You did object to it 13 13 carcinogens? a bunch in the first place and then you 14 14 MR. FOWLER: Objection, outside were coaching the witness before and 15 15 the scope of my redirect completely. then you opened everything back up by 16 16 MR. VAUGHN: Your redirect had having him read every one of his 17 17 him answer quest- -- testifying on every opinions. You opened the scope. 18 single one of his opinions. You 18 MR. FOWLER: I'm not going to 19 19 completely opened the scope up. argue with you, Counsel. The words 2.0 20 THE WITNESS: Well, what I can "sell the drugs" was nowhere in his 21 21 answer is that that's not how in opinions. 22 pharmacies that we get rid of drugs 22 BY MR. FOWLER: 23 23 anymore. There are drug take-back If you can't sell a drug --24 programs that almost every pharmacy runs 24 (Unintelligible overlapping.) 25 periodically, and there's some 25 BY MR. VAUGHN:

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1	Q Doctor, does it have any	1	testimony from Dr. Michael Bottorff.
2	value?	2	We are now off the record.
3	MR. FOWLER: I'm sorry, I spoke	3	FURTHER DEPONENT SAITH NOT.
4	over you, Counsel. Please state that	4	(Proceedings concluded at 4:02
5	again.	5	p.m. Eastern.)
6	THE WITNESS: Or I I never	6	
7	answered the previous question.	7	
8	MR. FOWLER: He withdrew.	8	
9	THE WITNESS: Oh, okay.	9	
10	MR. FOWLER: So a new question.	10	
11	Go ahead.	11	
12	BY MR. VAUGHN:	12	
13	Q. Would you like to answer the	13	
14	previous would you like to answer the previous	14	
	question, Doctor?	15	
16	A. If you would like me to.	16	
17	Q. So as a pharmacist, if the FDA	17	
18	will not allow you to sell a drug to the U.S.	18	
	public, would you be able to get your money back	19	
	from the manufacturer?	20	
21	MR. FOWLER: Same objection.	21	
22	THE WITNESS: And I would say	22	
23	that I've never been in the situation to	23	
24	understand how that works. That's not	24	
25	my my academic career has been	25	
	Page 267	1	Page 269
1	working in hospitals with cardiology	1 2	REPORTER'S CERTIFICATE
2	patients and cardiologists, and I've		I certify that the witness in the
3	never worked in that environment, so I		oregoing deposition, MICHAEL BOTTORFF, PHARM.D., was by me duly sworn to testify in the within
4	I had no experience with that at all.		ntitled cause; that the said deposition was
5	BY MR. VAUGHN:		aken at the time and place therein named; that
6	Q. If you can't sell the drug,		he testimony of said witness was reported by me,
	Doctor, does the drug have any value?		Shorthand Reporter and Notary Public of the
8	MR. FOWLER: Form,		state of Tennessee authorized to administer oaths
9	incomprehensible.		nd affirmations, and said testimony, Pages 7
10	THE WITNESS: Again, I I mean,		hrough 258 thereafter transcribed into
11	in a hypothetical, if you can't sell it,		ypewriting.
12	then obviously you can't sell it, so	13	I further certify that I am not of counsel
1	BY MR. VAUGHN:	14 o	r attorney for either or any of the parties to
14	Q. Absolutely.		aid deposition, nor in any way interested in the
15	A. So I would say, yeah, if you		outcome of the cause named in said deposition.
16	can't sell it so it doesn't have value if you	17	IN WITNESS WHEREOF, I have hereunto set my
17	can't sell it.	18 h	and this 4th day of April 2022.
18	MR. VAUGHN: I have no further	19	
19	questions.	20	
20	MR. FOWLER: He'll read.	21	
21	MR. VAUGHN: Thanks for your time	22	
22	again, Dr. Bottorff.	23	
23	MR. FOWLER: Nothing further.	24	
24	THE VIDEOGRAPHER: The time is		Carissa L. Boone, LCR No. 382
25	5:02 p.m. This concludes today's	25	My License Expires: 6/30/2022
1			

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:	BRRITIT
	I, MICHAEL BOTTORFF, PHARM.D., having read the foregoing deposition, Pages 7 through 268, taken March 25, 2022, do hereby certify said testimony is a true and accurate transcript, with the following changes (if any):
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25	My Commission Expires:
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